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1 ANDERSON COURT REPORTING

2 RPTS GARLAND

3 HIF197.020

4 REVIEW OF CDC ANTHRAX LAB INCIDENT

5 WEDNESDAY, JULY 16, 2014

6 House of Representatives

7 Committee on Energy and Commerce,

8 Subcommittee on Oversight and Investigations

9 Washington, D.C.

10 The Subcommittee met, pursuant to call, at 10:00 a.m.,
11 in Room 2123, Rayburn House Office Building. Hon. Tim Murphy
12 [chairman of the subcommittee] presiding.

13 Present: Representatives Murphy, Blackburn, Gingrey,
14 Harper, Griffith, Johnson, Long, Ellmers, Barton, Upton (*ex*
15 *officio*), DeGette, Braley, Schakowsky, Castor, Tonko, Green,
16 and Waxman (*ex officio*).

17 Staff Present: Sean Bonyun, Communications Director;
18 Leighton Brown, Press Assistant; Karen Christian, Chief
19 Counsel, Oversight; Noelle Clemente, Press Secretary; Andy

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20 | Duberstein, Deputy Press Secretary; Carrie-Lee Early,
21 | Detailee, Oversight; Brad Grantz, Policy Coordinator, O&I;
22 | Brittany Havens, Legislative Clerk; Sean Hayes, Deputy Chief
23 | Counsel, O&I; Emily Newman, Counsel, O&I; Phil Barnett, Staff
24 | Director; Peter Bodner, Counsel; Brian Cohen, Staff Director,
25 | O&I, Senior Policy Advisor; Lisa Goldman, Counsel; and
26 | Elizabeth Letter, Press Secretary.

27 |

28 |

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29 Mr. MURPHY. Good morning. The Subcommittee of
30 Oversight and Investigation today examines the Center for
31 Disease Control anthrax incident last month that potentially
32 exposed dozens of CDC researchers to live anthrax because
33 established safety procedures were not followed.

34 Last Friday, the CDC director announced the findings of
35 CDC's own internal review of the incident and the corrective
36 actions being taken. CDC's review identified a fundamental
37 flaw. The Agency had no written study plan to ensure the
38 safety of its workers and the proper handling of live
39 biological agents.

40 Like anthrax, the Department of Agriculture's
41 investigation revealed more disturbing detail. During the
42 inspection, CDC workers could not locate some of their
43 anthrax sample. It took more than a week for the inspectors
44 and CDC management to track down the anthrax samples that are
45 in CDC's custody. Agriculture inspectors also uncovered that
46 CDC was transferring dangerous material from biological
47 containment labs in Ziploc bags. Disinfectant that CDC labs
48 use for decontamination has expired. This is troubling, and
49 it is completely unacceptable.

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50 The Centers for Disease Control is supposed to be the
51 gold standard of the U.S. public health system, and it has
52 been tarnished. We rely on CDC to protect us and uphold the
53 highest standards of safety, but the recent anthrax event and
54 newly-disclosed incidents have raised very serious questions
55 about CDC's ability to safeguard properly-selected agents in
56 its own labs.

57 The CDC director has called the potential anthrax
58 exposure a wakeup call, but our investigation has uncovered
59 this is not CDC's first wakeup call. I am not even sure
60 "wakeup call" is the proper term. It is a gross and
61 dangerous understatement. It was a potentially very
62 dangerous failure. Wakeup call is catching something before
63 the danger exists. Once a person is exposed to the serious
64 pathogens, the danger is of a much higher magnitude.

65 In 2006, the CDC Bioterrorism Lab sent live anthrax to
66 two outside labs on the mistaken belief that the shipped
67 anthrax was inactivated. Later that same year, inadequate
68 inactivation procedures led another CDC lab to inadvertently
69 ship live botulinum to an outside lab. In 2009, CDC learned
70 from newly-available test methods that a strain of brucella,

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71 | which can cause a highly-contagious infection, had been
72 | shipped to outside labs since 2001 because researchers had
73 | believed that it was a less dangerous strain. One must
74 | question the scientific qualifications of these scientists.

75 | Reports by government watchdogs demonstrate that these
76 | events are not isolated incidents. Between 2008 and 2010,
77 | the HHS Office of Inspector General, or OIG, issued three
78 | reports documenting concerns that CDC labs, such as ensuring
79 | physical security of select agents and ensuring personnel
80 | receive required training. An audit in 2010 found that a CDC
81 | scientist discovered select agents in a drawer in an
82 | unsecured lab during a reorganization, and another CDC
83 | scientist found 16 vials of a select agent stored in an
84 | unsecured freezer that was reportedly left over from an
85 | outbreak investigation many years earlier.

86 | This is reminiscent of the recent discovery of smallpox
87 | vials in a storage room on the NIAID campus. This smallpox
88 | was in a place that no one knew it was there, and it was also
89 | discovered by accident.

90 | In 2011, the OIG found that CDC did not monitor and
91 | enforce effectively certain agent regulations at Federal

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92 laboratories, including those at the CDC. In addition to the
93 Inspector General audits, several GAO reports in recent years
94 have raised concerns about oversight of high containment
95 labs, including those at CDC.

96 Despite the number of red flags, these incidents keep
97 happening. We learned last Friday that CDC scientists in
98 March shipped influenza strains to a Department of
99 Agriculture lab that was contaminated with a very deadly flu
100 virus. This cross-contamination was discovered on May 23rd,
101 2014, but it took 6 weeks for this to be reported to CDC
102 leadership.

103 What we have here is a pattern of reoccurring issues, of
104 complacency, and a lax culture of safety. This is not sound
105 science, and this will not be tolerated. These practices put
106 the health of the American public at risk. It is sloppy, and
107 it is inexcusable.

108 Now, Dr. Frieden, I thank you for testifying today. I
109 have questions about whether the corrective actions you have
110 announced will ultimately solve the problems. We will be
111 looking forward to your testimony. CDC has already
112 reassigned one lab official lab from his duties. Taking

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113 personnel actions, though, will not address problems that
114 based on the number of incidents and reports over the years
115 appear to be systemic.

116 CDC needs to reassure that proper policies are
117 implemented and followed. Dr. Frieden, you said last Friday
118 that you were distressed about the delay of notification
119 about the influenza shipments. I want to know if you are
120 concerned about why CDC workers are not reporting everything,
121 and whether you have reason to believe that they may be
122 afraid to report these incidents.

123 CDC is not going to solve human errors as it gets as
124 much information as possible from its own people. Since
125 2007, there have been 17 reports at CDC indicating that a
126 worker was potentially exposed to a select or toxin.
127 Thankfully, as far as we are aware, no one at CDC has become
128 sick from improper handling of select agents. But CDC should
129 not assume that its luck with these near miss events will
130 continue. Sooner or later that luck will run out, and
131 someone will get very sick or die.

132 CDC needs to strengthen its safety procedures. The risk
133 from these deadly pathogens require failsafe mechanisms and

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134 | redundancies similar to those used in other contexts, such as
135 | handling weapons. The subcommittee will also review the
136 | oversight system of Federal laboratories, compliance with
137 | select agent regulations, and to explore the possibility of
138 | an independent agency to oversee the CDC labs.

139 | I thank all the witnesses for testifying today, and I
140 | now recognize the ranking member, Ms. DeGette.

141 | [The information follows:]

142 |

143 | ***** COMMITTEE INSERT *****

144 |

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145 Ms. DeGETTE. Thank you very much, Mr. Chairman. Last
146 month, scientists at CDC's BRRAT Laboratory in Atlanta made a
147 series of mistakes that could have had deadly consequences.
148 They transferred anthrax to two other labs, potentially
149 exposing dozens of individuals to anthrax. Luckily, nobody
150 has yet fallen ill.

151 Like all of us, I am deeply troubled by what we have
152 learned about this incident. How did it happen? CDC
153 conducted its own internal investigation that identified
154 numerous failures. There was no standard operating procedure
155 for the analysis being conducted by the CDC scientists.
156 There was no approved study plan. The scientists used a
157 pathogenic strain of anthrax when a non-pathogenic strain
158 could have been used. The scientists used unapproved
159 sterilization techniques for pathogenic anthrax, and then
160 proceeded to transfer the material without confirming that it
161 was inactive.

162 This is obviously an alarming series of failures, but
163 there were other problems at CDC that made this incident
164 worse. CDC has provided to the committee a disturbing report
165 from the U.S. Department of Agriculture Animal and Plant

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166 Health Inspection Service, APHIS. After the anthrax
167 incident, APHIS conducted its own inspection of the facility.
168 Inspectors identified serious problems in lab operations and
169 decontamination procedures, but also detailed major problems
170 with the CDC's response to the incident, reporting that the
171 Agency was inadequately prepared to handle the cleanup or to
172 treat those who were potentially exposed.

173 I think we can all agree the reports on this incident
174 are bad. But what is even more troubling to me is that in
175 context, they reveal a broad problem with the CDC's safety
176 culture. We have received report after report from GAO, the
177 HHS, IG, and APHIS offering a multitude of warnings and
178 recommendations on operations of high containment labs.
179 CDC's after action report identified four other cases in the
180 last decade where CDC shipped dangerous pathogens offsite.

181 The Democratic committee staff prepared a memo
182 describing the results from six different APHIS inspections
183 at the CDC Roybal facility in 2013 and '14. Overall, in the
184 six inspection, APHIS identified dozens of observations of
185 concerns, 29 related to facilities and equipment, 27 related
186 to safety and security, and 39 related to documentation and

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187 | record keeping. In some cases, the APHIS observations
188 | revealed that what appeared to be only paperwork problems,
189 | but in other cases, they found many more serious problems.
190 | They found reports of scientists using torn gloves and
191 | exhaust hoods blowing fumes in the wrong direction. Not one
192 | of these six inspections gave a CDC a totally clean bill of
193 | health.

194 | Now, I would like to make this memo part of the record,
195 | Mr. Chairman. I think your staff has seen it.

196 | Mr. MURPHY. Without objection.

197 | Ms. DeGETTE. The record shows that CDC had ample
198 | warnings and should have been focused on the problems in
199 | their high containment labs long before the June anthrax
200 | release. I just do not understand why they did not heed
201 | those warnings. Dr. Frieden has indicated that he was as
202 | surprised as anybody by the scope of the problems. And the
203 | fact, Dr. Frieden, you were so surprised is a problem in and
204 | of itself because what it shows is that there is a
205 | fundamental problem with the culture of identifying and
206 | reporting safety problems up the chain of command.

207 | Now, I am sorry to say, Mr. Chairman, these lab safety

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208 | issues are not new to me or the committee. This is one of
209 | the detriments of having been on this committee for 18 years.
210 | We have had multiple hearings on this problem at the CDC over
211 | the years. In 2006 and 2007, we had terrible problems at the
212 | CDC facility in Fort Collins, Colorado just north of my
213 | district where we had vector-borne diseases that were being
214 | very sloppily handled.

215 | Fortunately, we built a new facility since then up in
216 | Fort Collins. It is a beautiful facility, and we are able to
217 | handle these diseases. But, you know, these issues are not
218 | resolving themselves. And so, Dr. Frieden, you have got a
219 | strong record at the CDC. I know you have got answers and
220 | recommendations, and you are acting aggressively to make sure
221 | this does not happen again. I appreciate that. We all
222 | appreciate that. But what we all need to know is what the
223 | plan is to change the culture at the CDC. We cannot
224 | legislate. We can do a lot, but we cannot legislate a
225 | culture change. It has to come from within the Agency.

226 | I am also glad to have GAO and APHIS' witnesses here
227 | because in retrospect, your warnings were prescient and
228 | should have been taken more seriously.

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229 | I can assure you these warnings are being taken very
230 | seriously right now, not just by the Agency, but by the
231 | people here on this panel. Thank you very much, Mr. Chair.

232 | [The information follows:]

233 |

234 | ***** COMMITTEE INSERT *****

235 |

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236 Mr. MURPHY. Thank you. The gentlelady's time has
237 expired. And I will recognize the chairman of the full
238 committee, Mr. Upton, for 5 minutes.

239 The CHAIRMAN. Well, thank you, Mr. Chairman. This is a
240 very serious hearing for sure. 2 years ago after allegations
241 about problems in CDC's Building 18, the home of the world's
242 deadliest agents and pathogens, this committee investigated
243 whether the CDC was complying with Federal safety
244 requirements in the operation of its main lab facilities.

245 In response to our concerns, CDC Director Tom Frieden
246 sent the committee a letter in September of '12. The CDC
247 letter, which I would like to include in the record, outlined
248 the Agency's efforts to ensure better oversight and safe
249 handling of select agents at CDC labs.

250 These measures included rigorous training, constant
251 review of safety measures, multiple layers of engineering and
252 operational systems. The letter also stated that a senior
253 official, who was not identified, would be designated to
254 report directly to the CDC director on safety at CDC labs.
255 These measures sound very similar to the corrective actions
256 that Dr. Frieden outlined last week to address the current

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257 | lab crisis. Why should we believe this time that things are,
258 | in fact, going to be different?

259 | We asked CDC 2 years ago to identify each biosafety
260 | incident that had taken place at its main lab since January
261 | 1st of '05. CDC provided the committee with a list back in
262 | 2012, but we now know from CDC's internal investigation
263 | released last Friday that, in fact, the list was not
264 | complete. Improper shipments of pathogens in '06, including
265 | anthrax, were not included in CDC's list of safety incidents
266 | that, in fact, was provided to this committee.

267 | CDC staff has now acknowledged to committee staff that
268 | the '06 incidents, which were reported to the HHIG, should
269 | have been included. We do not know why they were not. This
270 | raises the question of whether CDC leadership is receiving
271 | all the information about its own biosafety systems.

272 | Add to the possible anthrax exposure, the delayed notice
273 | provided to CDC leadership about Avian flu shipments, and the
274 | discovery of smallpox vials in a cardboard box in an FDA on
275 | the NIH, and these incidents no longer appear isolated. A
276 | dangerous, very dangerous, pattern is emerging, and there are
277 | a lot of unknowns out there as well.

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278 When dealing with pathogens, such as the ones being
279 discussed today, unknowns are frankly unacceptable. What you
280 do not know can hurt you. Why do these events keep
281 happening? What is going to be next? CDC needs to solve the
282 safety problem now as a team. The Agency needs to get as
283 much info as possible from its workers about the true state
284 of biosafety at CDC, and keep this committee and the American
285 people fully informed. There is zero tolerance for unlocked
286 refrigerators and Ziploc bags. Those days have to be over.

287 I yield to Marsha Blackburn.

288 [The information follows:]

289

290 ***** COMMITTEE INSERT *****

291

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292 Ms. BLACKBURN. I thank the chairman for yielding. I
293 want to thank our panel for being here. And as you can hear,
294 on a bipartisan basis we have plenty of questions for you.
295 We are deeply concerned about the incidents that have
296 occurred at the Federal labs that are run by the Department
297 of Health and Human Services, CDC, with the anthrax
298 specimens.

299 Dr. Friedman, we appreciate the time you spent with us
300 last week, but I think we do have plenty of questions for you
301 about the safety and the carefulness. You know, we would
302 think that the priority would be safety and caring and making
303 certain that you are tending to that culture of safety within
304 these labs.

305 NIH, with the vials of smallpox, and the fact that this
306 was in an unused portion of a storage room. Who all would
307 have access to that? And then, of course, the cross-
308 contamination of the influenza sample.

309 We have all talked about the three of these events. And
310 the fact that they have occurred within this framework of
311 time, the fact that there seemed to be a dismissiveness of
312 the serious nature of these occurrences, the fact that the

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313 CDC's own report pointed out some of the contributing factors
314 in this, and the lack of a standard operating procedure, and
315 best practices; and the fact that this is known among the
316 employees at that Agency.

317 We know that there are remediation measures that have
318 been implemented, but the culture of safety or lack thereof
319 continues to be a concern to us for public health. I yield
320 back my time.

321 [The information follows:]

322

323 ***** COMMITTEE INSERT *****

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325 Mr. MURPHY. Thank you. I now recognize Mr. Waxman for
326 5 minutes.

327 Mr. WAXMAN. Thank you very much, Mr. Chairman, for
328 holding this hearing. I think it is important for us to
329 investigate this incident involving the release of
330 potentially viable anthrax on CDC's campus in Atlanta.

331 When I was chairman of the Oversight Committee, we held
332 hearings after the 2001 anthrax attacks. We looked at the
333 safety of postal workers and the public in handling mail, and
334 the Postal Service and CDC's response to those attacks. We
335 had hearings again in 2003 and 2005 where we found there were
336 still gaps in biological detection of anthrax and
337 communicating test results and risks to the public.

338 Those hearings showed why CDC's work on identifying and
339 containing public health risks from these types of biological
340 agents is so important. But this work can also pose risks,
341 and that is why this oversight hearing is important.

342 In 2009 when I was chairman of the full committee, we
343 held a hearing on the proliferation of high containment bio
344 labs and the lack of oversight over such facilities. Mr.
345 Dingell also held a hearing in 2007, so this is not our first

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346 | introduction to this subject.

347 | At our request, GAO, the Government Accountability
348 | Office, also looked into lab safety. GAO reported in a
349 | number of studies, one as recently as 2013, on the problems
350 | associated with the government's fragmented piecemeal
351 | approach to these labs. No single agency has oversight over
352 | all high containment bio labs. There are no national
353 | standards for operation, and we have no record of how many
354 | labs even exist.

355 | The Health and Human Services Inspector General also
356 | issued numerous reports on high containment labs and their
357 | handling of select agents. The Inspector General identified
358 | issues with the treatment of select agents and the safety of
359 | the individuals working with these dangerous pathogens. The
360 | Inspector General recommended that the Centers for Disease
361 | Control labs improve training for individuals handling select
362 | agents, improve record keeping, and take appropriate measures
363 | to improve safety.

364 | The American people count on the Centers for Disease
365 | Control to protect them, and we want to be able to assure
366 | them that CDC is conducting its research in safe and secure

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367 ways.

368 I am supportive of Dr. Frieden's efforts at CDC. We
369 have worked with him on numerous issues in the last 5 years,
370 and he has shown himself to be an effective leader and a
371 strong communicator. And I appreciate the quick actions that
372 he has taken in response to this incident. I am encouraged
373 to see that Dr. Frieden has appointed Dr. Michael Bell to
374 oversee laboratory safety protocols and procedures. This
375 investigation has shown us that CDC needs to change its
376 safety culture, and I hope that Dr. Bell can help instill a
377 new mindset at the Agency.

378 Still, I am concerned that it took the exposure of
379 dozens of CDC staff to anthrax to finally spur CDC to action.
380 So we want answers from the CDC about how this incident was
381 allowed to happen in the first place. And I look forward to
382 hearing from APHIS and GAO about the problems they have
383 identified in the past, how CDC should implement their
384 recommendations moving forward, and what role Congress should
385 play in making sure that happens.

386 Mr. Chairman, this is not the first hearing on the
387 subject. We have looked at it before. We need now finally

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388 | to be sure that all the recommendations that we have had are
389 | put in place so that we can stop something like this from
390 | happening again.

391 | Thank you, and I yield back my time.

392 | [The information follows:]

393 |

394 | ***** COMMITTEE INSERT *****

395 |

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396 Mr. MURPHY. Thank you. I now would like to introduce
397 the witnesses on the first panel for today's hearing. First,
398 Dr. Thomas Frieden is the director of the Centers for Disease
399 Control and Prevention. Today Dr. Frieden is accompanied by
400 Mr. Joseph Henderson, who is the deputy director of the
401 Office of Security and Emergency Preparedness at the Centers
402 for Disease Control. Dr. Jere Dick is the associate deputy
403 administrator of the Animal and Plant Health Inspection
404 Services at the U.S. Department of Agriculture. Dr. Nancy
405 Kingsbury is the managing director of Applied Research and
406 Methods at the U.S. Government Accountability Office. And,
407 Dr. Gingrey, did you want to introduce someone who is from
408 your district?

409 Dr. GINGREY. Mr. Chairman, thank you very much for
410 giving me the opportunity. I know this witness is on the
411 second panel, and it will be a little while before we will be
412 hearing from the second panel. But it is an honor and a
413 pleasure to introduce off of the second panel Sean Kaufman.

414 Mr. Kaufman is the president and founding partner of a
415 company called Behavioral-Based Improvement Solutions. His
416 background is long-term employment with the CDC before

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417 forming his own company in my district, the 11th
418 Congressional District of Georgia in Woodstock, Georgia.

419 And I would encourage all the members on both sides of
420 the aisle, if you have not had a chance -- I know we try to
421 read all of the testimony, but sometimes we skip one or two
422 along the way. But I will assure you that the written
423 testimony from Mr. Kaufman really hits the nail right on the
424 head in regard to this overall issue, and I would commend it
425 to you. And I am proud to introduce to you in anticipation
426 of the second panel.

427 Mr. Chairman, thank you very much, and I yield back.

428 Mr. MURPHY. Thank you, Dr. Gingrey.

429 To the panel, you are aware that the committee is
430 holding an investigative hearing, and when doing so has the
431 practice of taking testimony under oath. Do any of you have
432 objections to taking testimony under oath?

433 All the witnesses indicate no.

434 The chair then advises you all that you are under the
435 Rules of the House and the rules of the committee. You are
436 entitled to be advised by counsel. Do any of you desire to
437 be advised by counsel during today's testimony?

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438 All the witnesses indicate no.

439 In that case, would you all please rise and raise your
440 right hand, and I will swear you in. Stand, please.

441 [Witnesses sworn.]

442 Mr. MURPHY. Thank you. All the witnesses answered in
443 the affirmative. You are now under oath and subject to the
444 penalties set forth in Title 18, Section 1001 of the United
445 States Code. You may now give a 5-minute summary of your
446 written statement. Dr. Frieden, you are recognized.

447

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448 TESTIMONIES OF THOMAS R. FRIEDEN, DIRECTOR, CENTERS FOR
449 DISEASE CONTROL AND PREVENTION; JERE DICK, ASSOCIATE DEPUTY
450 ADMINISTRATOR, ANIMAL AND PLANT HEALTH INSPECTION SERVICES,
451 U.S. DEPARTMENT OF AGRICULTURE; NANCY KINGSBURY, MANAGING
452 DIRECTOR, APPLIED RESEARCH AND METHODS, GOVERNMENT
453 ACCOUNTABILITY OFFICE

454

455

456 TESTIMONY OF THOMAS R. FRIEDEN

457

458 Dr. FRIEDEN. Chairman Murphy, Ranking Member DeGette,
459 members of the subcommittee, thank you very much for this
460 opportunity to appear before you. I am Dr. Tom Frieden,
461 director of the CDC. With me is Mr. Joe Henderson, who heads
462 our Office of Security Safety and Asset Management.

463 I will review the problems that have come to light in
464 the past month and tell you what we are doing now to address
465 improving lab safety. The fact that it appears that no one
466 was harmed and that there were no releases does not excuse
467 what happened. What happened was completely unacceptable.
468 It should never have happened.

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469 If I leave you with just one thought about today's
470 hearing as it relates to CDC, it is this. With the recent
471 incidents, we recognize the pattern at CDC where we need to
472 greatly improve the culture of safety, and I am overseeing
473 sweeping measures to improve that culture of safety.

474 CDC works 24/7, and our scientists protect Americans
475 from threats, including naturally-occurring threats, like
476 Ebola, and MERS, and drug-resistant bacteria, and manmade
477 threats, such as anthrax. But we must do that work more
478 safely, and we will.

479 There is a recap of the recent incidents that are
480 summarized in our report, which has been completed, and we
481 are just at the outset of our investigation of the influenza
482 contamination. I would be pleased to go through the two
483 diagrams that we have provided to the subcommittee which
484 outline what we know to date. But in brief, the anthrax
485 incident shows deeply troubling problems: a lack of proper
486 protocol, incorrect inactivation procedures, failure to
487 ensure that we are transferring materials that were sterile
488 when we thought they were sterile, use of a virulent strain
489 when a non-dangerous form would have been appropriate.

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490 In the influenza cross-contamination, we are still
491 trying to understand how the cross-contamination occurred and
492 investigating how there could have been such a long delay in
493 notification. The risk to employees from the anthrax
494 exposure was at most very small, and the risk of release to
495 the public was non-existent. But that does not change the
496 fact that these were unacceptable events. They should never
497 have happened.

498 In the past, as the committee has outlined, there were a
499 number of specific incidents, and I do believe that CDC staff
500 worked hard to address the specific findings of past
501 investigations. But I think we missed a critical pattern.
502 Instead of just focusing on those, when we issued the anthrax
503 report, we provided not only these two incidents, but the
504 prior episodes of what has happened because what we are
505 seeing is a pattern that we missed. And the pattern is an
506 insufficient culture of safety.

507 We are now implementing every step we can to make sure
508 that the problems are addressed comprehensively in order to
509 protect our own workforce, and to strengthen the culture of
510 safety, and to continue our work protecting Americans. I

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511 | have taken a number of specific steps. I have issued a
512 | moratorium on the transfer of all biological materials
513 | outside of all BSL-3 and 4 laboratories at CDC. I have
514 | closed the two laboratories that were involved in this
515 | situation until we are sure that they can be reopened safely.
516 | I have appointed Dr. Michael Bell, a senior scientist, to be
517 | director of Laboratory Safety reporting directly to me as the
518 | single point of accountability. He will review the
519 | moratorium and lift it lab by lab when we are confident that
520 | can be done safely. He will also facilitate expansion and
521 | use of that safety culture throughout CDC.

522 | CDC scientists are world famous for their rigor in
523 | scientific investigation, and we will now apply that same
524 | rigor to improving the safety in our own laboratories. I am
525 | convening a high-level working group within CDC internally to
526 | advise on every step of the process and an external advisory
527 | group of outside experts who are top in the world to take a
528 | fresh look and see what we can do to do better.

529 | We will look at every inactivation and transfer protocol
530 | and other protocols and improve them as needed. We will look
531 | at future incidents, if they occur, with a command structure

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532 | which should have been used earlier in the anthrax exposure.

533 | I will ensure that appropriate discipline is taken as

534 | indicated by our investigations, and will apply lessons

535 | learned from this experience to our function as a regulatory

536 | agency and our Select Agents' Regulatory Program.

537 | In hindsight, we realized that we missed a crucial

538 | pattern, a pattern of incidents that reflected the need to

539 | improve the culture of safety at CDC. But as with many

540 | things, recognition is only the first step, and we are taking

541 | a number of additional actions to establish and strengthen a

542 | culture that prioritizes the safety of our own staff,

543 | encourages reporting of actual and potential situations that

544 | may place staffs and others at risk, openly assesses those

545 | risks, and implements redundant systems to keep risks to the

546 | absolute minimum.

547 | Part of that culture will be increased reporting of

548 | problems or potential problems. One of the aspects of an

549 | effective culture of safety is rapid reporting of problems so

550 | if we do uncover problems in the coming weeks and months,

551 | this may well be the result of strengthening our culture of

552 | safety rather than failing to address it.

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553 We have concrete actions underway to change processes
554 that allowed these incidents to happen, reduce the likelihood
555 of an occurrence in the future, and apply the lessons
556 broadly. We will do everything possible to live up to the
557 high standards that Congress and the American public
558 rightfully expect us to achieve.

559 I look forward to your questions, and thank you for
560 inviting me to testify today, and for your interest in this
561 important topic.

562 [The prepared testimony of Dr. Frieden follows:]

563

564 ***** INSERT 1 *****

565

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| | | |
|-----|--|--|
| 566 | Mr. MURPHY. Thank you. | |
| 567 | Dr. Dick, you are next. Make sure your microphone is | |
| 568 | on. Push it very close to your mouth. Thank you. It is not | |
| 569 | on. The green light. There you go. | |
| 570 | | |

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571 TESTIMONY OF JERE DICK

572

573 Mr. DICK. Thank you. Mr. Chairman and members of the
574 subcommittee, thank you for the opportunity to testify today
575 about the Animal and Plant Health Inspection Services
576 inspection into the release of possibly live anthrax at the
577 CDC's Roybal campus. I am Dr. Jere Dick, associate
578 administrator for APHIS within USDA.

579 APHIS conducted a thorough inspection of the incident to
580 learn how it happened and determine appropriate remedial
581 measures. We will continue to monitor the CDC's response to
582 ensure all necessary corrective action is taken, and that
583 when work resumes at the laboratories, it will be done in
584 full compliance with the health and safety of the employees
585 and the public at the forefront.

586 USDA was designated by Congress as the partner with CDC
587 in the oversight of select agents because of our expertise
588 and experience, safely working with select agents over the
589 past century, through our efforts to prevent dangerous
590 disease agents from impacting U.S. agriculture and the
591 environment. For decades, APHIS has also safely operated

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592 | high containment laboratories that handle select agents,
593 | including those of concern for human health, our personnel,
594 | our leading diagnosticians, and experts in the effective
595 | working of high containment laboratories.

596 | To ensure objectivity, APHIS and CDC signed a memorandum
597 | of understanding in October of 2012, which makes APHIS the
598 | lead inspection agency for CDC entities.

599 | Since the MOU was finalized, APHIS has carried out 11
600 | inspections of the four CDC laboratories.

601 | APHIS takes any potential release of a select agent or
602 | toxin very seriously, with the goal of quickly ensuring that
603 | the release is contained and determining what led to the
604 | release to ensure no future incidents. On June 13th, CDC
605 | officials discussed a potential release of anthrax and
606 | notified APHIS. CDC voluntarily closed impacted labs on June
607 | 16th.

608 | APHIS made its inspection a priority and quickly began
609 | its work to ensure that all select agents were secured, and
610 | that there were no other breaches in biosafety or
611 | biosecurity. The specially-trained APHIS inspection team of
612 | veterinarians and a plant pathologist spent nearly 2 weeks,

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613 beginning on June 23rd, conducting a facility review of the
614 laboratories and interviews with CDC personnel. APHIS brief
615 CDC officials on July 2nd, outlining deficiencies so that
616 they could immediately begin taking corrective actions.

617 APHIS found that the laboratory did not use an adequate
618 inactivation protocol and did not ensure that the protocol
619 was, in fact, validated. The initial response to this
620 incident by the CDC laboratories was inadequate both in
621 securing as well as disinfecting laboratories. For example,
622 individuals without approval to handle select agents were
623 able to access space containing or potentially contaminated
624 with anthrax at least 4 days after the incident was
625 discovered. We also found that employees did not have
626 appropriate training in some instances.

627 We found no clear management oversight of the incident
628 at the labs and no clear single manager overseeing the
629 overall CDC incident response, which resulted in employee
630 confusion about how to respond. In addition, CDC's
631 Occupational Health Clinic was not prepared to respond to the
632 potential exposure of a large number of workers.

633 APHIS currently has in place a cease and desist order

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634 | with select agents and the toxins at the two impacted select
635 | agent laboratories. We will require that corrective actions
636 | be taken to ensure the integrity of these research programs.
637 | We have directed CDC to provide APHIS with its plan for
638 | coming into compliance by July 25th. And before allowing CDC
639 | to resume select agent work in the laboratories, APHIS will
640 | conduct a re-inspection to ensure that all corrective actions
641 | have been taken.

642 | Mr. Chairman, this concludes my testimony. I would be
643 | happy to answer any questions that you or the members of the
644 | subcommittee have.

645 | [The prepared testimony of Mr. Dick follows:]

646 |

647 | ***** INSERT 2 *****

648 |

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649 Mr. MURPHY. Thank you, Dr. Dick.

650 Ms. Kingsbury, you are recognized for 5 minutes. Please
651 point that microphone very close to your mouth. A lot closer
652 than that.

653 Ms. KINGSBURY. Thank you, Mr. Chairman, for inviting --

654 Mr. MURPHY. Bring it really -- ma'am. Dr. Kingsbury?

655 Ms. KINGSBURY. Pardon me?

656 Mr. MURPHY. Bring the mike really close, please.

657 Ms. KINGSBURY. Really close.

658 Mr. MURPHY. Really close. Thank you.

659 Ms. KINGSBURY. Is that better? Yes. Okay.

660

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661 TESTIMONY OF NANCY KINGSBURY

662

663 Ms. KINGSBURY. Thank you very much for inviting us to
664 come to talk to you about some of our past work on biosafety
665 issues. As Mr. Waxman noted in his statement, we have been
666 doing this work for quite a while. We started with the
667 original anthrax attacks, and we have gone on to a number of
668 other issues over the years.

669 Basically, our past work has a couple of major themes.
670 One of them is a lack of strategic planning and oversight of
671 the whole picture of biosafety laboratories. APHIS and CDC
672 are only a part of that picture, and since 2001, there have
673 been an increasing number of biosafety laboratories both
674 within that sector, but also across the whole government.
675 There are six or seven different agencies involved, and no
676 one entity has been charged with developing a strategic plan.

677 We became particularly concerned about that as budgets
678 began to shrink, recognizing that the management and
679 operation of these laboratories is an expensive venture. And
680 if they are not properly maintained, other kinds of problems
681 can arise.

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682 We have also observed that there is a continued lack of
683 national standards for designing, constructing,
684 commissioning, and operating these laboratories. There is
685 guidance. The biosafety and microbiological and biomedical
686 laboratories guidance is available, but it is not required,
687 and there is no process by which an entity needs to make sure
688 that they are following that guidance. We think this broader
689 government perspective about both how many of these
690 laboratories we need and for what purpose, and also a better
691 framework for oversight is still needed.

692 We have done some work since the most recent episode
693 became public. We did take a team to Atlanta. I want to
694 thank Dr. Frieden for his staff's cooperation with us when we
695 were there. Coming together with something I am prepared to
696 sit here and talk about on something like 10 days' notice is
697 a bit of a challenge for us, but his staff was very good at
698 providing everything we asked for.

699 I am not going to add very much to that debate. I think
700 the two previous witnesses have covered the details pretty
701 well. The one thing I would add, however, is while we agree
702 that there is a requirement to have standard operating

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703 | procedures that are reviewed at appropriate levels for
704 | biosafety, we believe it is also important that those
705 | procedures be validated. And by that we mean independently
706 | tested so that we can be assured that if these procedures are
707 | followed, there will be no further episodes. So I will just
708 | add that one thought to the debate about the incident itself.

709 | Thank you very much, Mr. Chairman. That concludes my
710 | statement.

711 | [The prepared testimony of Ms. Kingsbury follows:]

712 |

713 | ***** INSERT 3 *****

714 |

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715 Mr. MURPHY. Thank you, Dr. Kingsbury. I will now
716 recognize myself for 5 minutes.

717 Dr. Frieden, is anthrax a biological agent that has been
718 or could be used in warfare?

719 Dr. FRIEDEN. Yes.

720 Mr. MURPHY. And the mishandling of anthrax can have
721 some real consequences. If someone were sickened by anthrax,
722 what would some of the symptoms be?

723 Dr. FRIEDEN. Anthrax can cause a variety of symptoms,
724 but the most severe forms are respiratory anthrax, which can
725 cause severe illness or death.

726 Mr. MURPHY. I have an image here of some workers
727 handling testing for anthrax, et cetera. One sees that
728 generally you're -- this is not in a lab, but some other
729 workers investigating. When I tour labs, and thank you for
730 this slide, the number of levels there of what is required
731 for breathing, for covering clothes before and after is
732 pretty severe.

733 I have got to ask this question. Now, these are lined,
734 but this is a Ziploc bag. And I to think what in heaven's
735 name would go through the minds of some scientists thinking a

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736 Ziploc bag is enough to protect someone from anthrax when we
737 have other instances of all that paraphernalia someone has to
738 wear when they are dealing with anthrax. Have you talked to
739 these personnel involved with transporting anthrax and asked
740 them why?

741 Dr. FRIEDEN. I have been directly involved in the
742 investigation. I will be directly involved in the
743 remediation of the problems that we find. Many of the issues
744 that are mentioned in the APHIS findings relate to what was
745 done with the material that was believed to have been
746 inactivated. So once the laboratory had said here is killed
747 anthrax, it was handled by the staff in those lower
748 containment laboratories as if it were not infectious.

749 Our subsequent study suggests that it is likely that it
750 was not, but the core error there was the failure to --

751 Mr. MURPHY. But, Dr. Frieden, this is like saying I did
752 not know the gun was loaded, but somebody got shot. But you
753 always should assume it is. For someone to say, well, I did
754 not think the anthrax was live is not acceptable. And quite
755 frankly, I wonder if you have the ability to not only
756 reprimand such personnel, but to fire them, to suspend them

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757 from working with pathogens that are deadly.

758 Quite frankly, do they understand that the extent to
759 which this went could have left them in a condition where
760 they were charged with criminal negligence, or negligent
761 homicide, or reckless endangerment? Do they understand the
762 seriousness of this to the American public health?

763 Dr. FRIEDEN. I think, first, your idea, Mr. Chairman,
764 of a two-key system as is used in other circumstances is
765 quite appropriate here both within the high containment
766 laboratory and to verify that stuff coming out is safe if it
767 does come out, because stuff has to come out of those
768 laboratories to be tested or worked with elsewhere.

769 In terms of disciplinary proceedings, what we want to do
770 is strike the right balance. On the one hand, we recognize
771 the need to make sweeping improvements in our culture of
772 safety, and part of that means that staff need to feel
773 comfortable any time saying, hey, there may be a problem here
774 coming forward. At the same time, if our investigation finds
775 that there is negligence, that people knowingly failed to
776 report or took actions that were likely to or should have
777 been known to endanger themselves or others, then we will

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778 take appropriate action.

779 Mr. MURPHY. Well, I am looking at Dr. Dick, who has
780 said that people who were not approved were able to handle
781 select agents, were able to access space containing or
782 potentially contaminated with anthrax at least through June
783 17th, 4 days after the incident was discovered. Now, my
784 assumption is these scientists and their aides are pretty
785 smart people, but it is extremely disturbing to think that
786 they are not thinking of this.

787 But let me ask this. It has been a week since you
788 learned about the March 2014 CDC shipment of H5N1 influenza.
789 And there was a 6-week delay in notifying. Have you found
790 out why there was a 6-week delay, and was there a cover-up
791 involved in that, or are the bureaucratic hurdles too high?
792 What was the cause?

793 Dr. FRIEDEN. I have only gotten some very preliminary
794 information on that. I will make a general point, however.
795 When we look at emergencies in emergency departments or
796 intensive care units in the healthcare sector, the biggest
797 problem is not usually a failure to respond effectively when
798 people recognize there is an emergency. It is a failure to

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799 recognize that the situation is an emergency or something
800 that requires immediate attention. But we have not completed
801 our investigation of that, and we will look at all
802 possibilities.

803 Mr. MURPHY. Is there any kind of notification or alarm
804 system that lets people know when there has been a release or
805 a problem there?

806 Dr. FRIEDEN. There are multiple alarm systems within
807 CDC. In this case, it was a cross-contamination of a
808 culture, so somehow, and we have not figured out how yet, a
809 relatively low virulence Avian influenza was cross-
810 contaminated in our laboratory with the high pathogenic H4N1.

811 Mr. MURPHY. I get more alarms when you try and walk out
812 of Walmart with a shirt that has not been paid for. You see
813 those happening all the time. Is there any evidence of
814 cover-up here from employees not wanting to let someone else
815 know that somebody else --

816 Dr. FRIEDEN. No. We have seen at this point no
817 evidence of a cover-up, but we do see the need to strengthen
818 the culture of safety that encourages reporting any time
819 there is a problem or a potential problem so that we can

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820 | assess it and take rapid and prompt action.

821 | Mr. MURPHY. Thank you. I now recognize Ms. DeGette for
822 | 5 minutes.

823 | Ms. DeGETTE. Thank you, Mr. Chairman. Dr. Kingsbury,
824 | let me just make sure that I heard your testimony right. You
825 | testified that there is an increasing number of labs that are
826 | handling these bioagents, correct?

827 | Ms. KINGSBURY. Correct.

828 | Ms. DeGETTE. And you said that there is really no one
829 | agency in charge, is that correct?

830 | Ms. KINGSBURY. Correct.

831 | Ms. DeGETTE. Now, you said that today, but in 2007, the
832 | GAO testified before this committee the same thing, no single
833 | government agency was responsible for tracking all of these
834 | labs.

835 | Ms. KINGSBURY. That is correct.

836 | Ms. DeGETTE. That is correct, too. Dr. Frieden, are
837 | you aware of this finding by the GAO going back all the way
838 | to 2007?

839 | Dr. FRIEDEN. Yes, I am.

840 | Ms. DeGETTE. And do you agree with Dr. Kingsbury that

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841 | there are an increasing number of labs handling these
842 | bioagents?

843 | Dr. FRIEDEN. If we look over the past 10 years or so,
844 | it is my understanding that there is an increasing number.

845 | Ms. DeGETTE. And do you agree with her that there has
846 | never been one agency in charge despite the red flags going
847 | up all of these years?

848 | Dr. FRIEDEN. There is a clear division of
849 | responsibilities between CDC and APHIS in terms of select
850 | agent oversight, inspection, and enforcement. Several years
851 | ago at my direction, we turned over the inspection of CDC's
852 | select agent laboratories to APHIS, which has conducted them
853 | since that point. But the overarching issue of laboratory
854 | safety is one that does touch many parts of both the public
855 | sector and the non-governmental sector.

856 | Ms. DeGETTE. So are you saying that APHIS is in charge
857 | now since you put that into effect the last few years?

858 | Dr. FRIEDEN. In terms of the inspection of laboratories
859 | which are working with select agents, there is a clear
860 | division of responsibility between ourselves and APHIS.

861 | Ms. DeGETTE. Does that mean APHIS is in charge, yes or

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862 no?

863 Dr. FRIEDEN. APHIS is in charge of investigating CDC's
864 select agent laboratories. APHIS is not in charge of the
865 overall enterprise.

866 Ms. DeGETTE. So do you think we need to clarify who is
867 going to be in charge of the overall enterprise?

868 Dr. FRIEDEN. We are certainly willing to look at every
869 suggestion to improve laboratory safety and biosecurity.

870 Ms. DeGETTE. Do you think it would be useful if we had
871 one agency in charge of all of the inspections and making
872 sure people were doing things in the right way?

873 Dr. FRIEDEN. I have seen several suggestions for how we
874 could improve the process via cell three oversight and select
875 agent oversight. And my sense is that each of these ideas is
876 certainly worth exploring.

877 Ms. DeGETTE. What do you think about that, Dr.
878 Kingsbury? Do you think it would be useful to have one
879 agency in charge?

880 Ms. KINGSBURY. Well, we have said for a number of
881 years, as you know, that there needs to be some entity in
882 charge of a national strategy, not necessarily in charge of

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883 every laboratory in the country. The other thing I would
884 point out --

885 Ms. DeGETTE. So you are saying an agency in charge of
886 developing the protocols and how you are going to do this?

887 Ms. KINGSBURY. And ensuring biosafety and biosecurity.
888 But the more important issue, and from a strategic point of
889 view, is how many of these laboratories do we really need,
890 for what purpose, against what threat. One of the
891 interesting things that I have become a little bit more
892 sensitive to in the last few weeks is that the whole
893 structure we have that CDC and APHIS are involved in is
894 around the select agent agents, and there are a lot of other
895 bugs out there in other laboratories that are not select
896 agents that also need to be protected. And there is very
897 little visibility about that sector of this enterprise.

898 Ms. DeGETTE. And, Dr. Frieden, I am going to assume
899 that you are going to agree with Dr. Kingsbury that it would
900 be very useful to have national safety and security standards
901 that would apply to everybody. Is that correct?

902 Dr. FRIEDEN. I am not sure I understood the question.
903 I am sorry.

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904 Ms. DeGETTE. Okay. Well, I mean, what GAO says is that
905 we do not have one single agency developing national
906 biosafety and security standards, and as a result, we have
907 all these labs doing this type of research, a proliferating
908 number of labs. But there is nobody developing standards
909 across all those agencies.

910 Dr. FRIEDEN. I think there are many aspects of both
911 biosafety and biosecurity which merit careful investigation.
912 And if we can figure out better ways to do them, we are
913 certainly completely open to that --

914 Ms. DeGETTE. And do you think the protocol should apply
915 to everybody?

916 Dr. FRIEDEN. The protocols may be very specific for the
917 different situations, but they should all adhere to the
918 highest standard of safety.

919 Ms. DeGETTE. Dr. Dick, what is your opinion of this?

920 Mr. DICK. I think that there should be a single
921 oversight body. Right now for the Select Agent Program,
922 there is a single oversight body made up of the Division of
923 Select Agents and Toxins at CDC. There is a single oversight
924 body in Agriculture that makes up the other half of that

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925 Select Agent Program.

926 Together we meet on a monthly basis. We have the
927 directors and assistant directors of the programs that are in
928 the two programs, and we have OGC and other counsel present.

929 Ms. DeGETTE. But if that is the case, why are we having
930 all these problems then?

931 Mr. DICK. And so, what we need, what we have is a
932 single set of biosafety and biosecurity regulations that are
933 followed by both sides.

934 Ms. DeGETTE. But we do not have that now, is that what
935 you are saying?

936 Mr. DICK. No. What I am saying is that I think we
937 currently do have that. I do agree with Dr. Frieden that
938 eventually after we get done with this investigation, we
939 should take a very close look at all of the issues and see if
940 there are updates that need to be made to biosafety and
941 biosecurity.

942 Mr. MURPHY. Thank you. I now recognize Dr. Gingrey for
943 5 minutes for questions.

944 Dr. GINGREY. Mr. Chairman, thank you. And I am going
945 to address my questions of this panel to Dr. Frieden. Dr.

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946 Frieden, thank you very much for being here and providing the
947 subcommittee with your testimony. I actually have a number
948 of questions for you, in fact four, and I will get right to
949 those since time is of the essence.

950 Firstly, can you please describe the policies and
951 procedures CDC has in place to handle biosafety issues that
952 may arise from human error like what happened in the
953 Bioterrorism Rapid Response and Advance Technology Laboratory
954 in Atlanta on June the 5th?

955 Dr. FRIEDEN. We have extensive policies and procedures.
956 But what we are doing now is implementing a moratorium on all
957 transfers out of BSL-3 and BSL-4 Laboratories while we review
958 each laboratory's policies and procedures to ensure that
959 there is appropriate inactivation before any materials are
960 transferred out.

961 Dr. GINGREY. And I appreciate that answer, and you
962 explained that to us I think last week in an informal
963 setting, and I think that is a good thing. That leads to my
964 second question. What is the impact and the cost of the
965 BRRAT Laboratory shut down? You shut down those two
966 laboratories for X number of days. Do you have a cost

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967 estimate in regard to them being offline for a period of
968 time?

969 Dr. FRIEDEN. I do not have a cost estimate for that.
970 The impact of the moratorium is potentially significant, and
971 so we are working rapidly to rigorously assess protocols and
972 where there are situations such as the diagnosis of drug
973 resistant tuberculosis, or helping to control the Ebola
974 outbreak, or beginning work on next year's flu vaccine. We
975 will work to ensure that we can do that safely in time, but
976 there are real challenges with this moratorium.

977 One of the things that the BRRAT Lab does, the lab that
978 was associated with the anthrax incident, is to provide to
979 the Laboratory Response Network, a network of over 150
980 laboratories, proficiency testing to make sure that they can
981 rapidly identify anthrax and other dangerous pathogens
982 safely. So we will figure out a way to do that safely in
983 time.

984 Dr. GINGREY. Well, I would think time is of the essence
985 in regard to cost. But as you say, safety is the most
986 important factor. You got to get it right, and I certainly
987 agree with that.

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988 Should inactivated select agents be added back to the
989 select agent list?

990 Dr. FRIEDEN. I think that what we need to ensure is
991 that any inactivation is done completely because once
992 something is inactivated, it may be able to be used. It may
993 be necessary to use that, for example, to diagnose it. And
994 you would not want to have to follow select agent
995 requirements out diagnosing something in a hospital lab, or a
996 clinical lab, or even in the field.

997 But the key point here is to have that two-key system
998 that the chairman mentioned in that meeting, that two-key
999 system to make sure that when inactivation is undertaken, it
1000 is validated and verified that the materials are inactive.

1001 Dr. GINGREY. The last question, Dr. Frieden. In your
1002 testimony, you noted you only learned of the March 13th, 2014
1003 shipment from the CDC influenza lab of a virus that was
1004 cross-contaminated with H5N1 to a USDA laboratory on July the
1005 9th. So that is from March 13th when it actually occurred to
1006 when you were informed or learned of it July the 9th.

1007 Can you please describe how you are going to improve
1008 communications of these incidents up and down the chain of

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1009 | command?

1010 | Dr. FRIEDEN. Thank you. In fact, it was the afternoon
1011 | of our meeting, which was in the morning, when I learned
1012 | about this, if I remember correctly. What your question gets
1013 | to is really the crux of the matter, which is how do we
1014 | improve the culture of safety at CDC? And I think that is
1015 | going to involve a number of steps that we think will
1016 | succeed, but will take time.

1017 | We need to encourage reporting. We need to encourage
1018 | all staff to take responsibility in addition to having a
1019 | single point of accountability for laboratory safety. We
1020 | need to have a clear vision of working safely. We are, after
1021 | all, the prevention agency, and we want to apply that same
1022 | rigor that we applied to our work in the field and in disease
1023 | control to preventing any incident from happening in our
1024 | laboratory.

1025 | We also want to build on many of the organizational
1026 | strengths and identify the laboratories that are doing this
1027 | very well within CDC and identify the practices that they are
1028 | taking that will prevent these incidents.

1029 | And finally, I think coming up with ways to monitor

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1030 progress and track progress, and identifying what are called
1031 the critical control points. What are the flashpoints? What
1032 are the areas where problems may occur, and then developing
1033 redundant, effective, validated, monitored ways to address
1034 those critical control points, whether it is inactivation, or
1035 transfer of materials, or making sure that materials
1036 transferred only contain those materials.

1037 We have terrific scientists at CDC, and they are now
1038 focusing their creativity, their energy, their commitment on
1039 improving our culture of safety.

1040 Dr. GINGREY. Dr. Frieden, thank you very much. And,
1041 Mr. Chairman, I will yield back my 30 seconds.

1042 Mr. MURPHY. Thank you. I now recognize Mr. Waxman for
1043 5 minutes.

1044 Mr. WAXMAN. Thank you, Mr. Chairman. Dr. Frieden, last
1045 Friday when you released the CDC report on the anthrax
1046 incident, you announced you were imposing a moratorium on CDC
1047 transferring any biological samples out of any BSL-3 or BSL-4
1048 labs until they had conducted a lab-by-lab assessment.
1049 Additionally, you closed the Bioterrorism Rapid Response and
1050 Advanced Technology, or the BRRAT Laboratory, and announced

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1051 | that it will remain closed until it is approved to reopen
1052 | under safer conditions. These seem like appropriate interim
1053 | steps until CDC can undertake a comprehensive safety review
1054 | and ensure that the proper procedures and protocols are in
1055 | place moving forward.

1056 | Dr. Frieden, how long do you anticipate this moratorium
1057 | lasting and the BRRAT lab being closed?

1058 | Dr. FRIEDEN. The short answer to your question is as
1059 | long as it takes to ensure that they can open safely. The
1060 | longer answer is that there are some things that need to
1061 | resume, for example, proficiency testing for select agents in
1062 | the Laboratory Response Network. And that is something that
1063 | we will look at very carefully. But I am committed that we
1064 | will not open them until we can open them safely.

1065 | Mr. WAXMAN. What steps are you taking to lift the
1066 | moratorium and reopen the facilities? When will you know or
1067 | how will you know when it is safe to do so?

1068 | Dr. FRIEDEN. I have appointed Dr. Michael Bell, who is
1069 | a top expert at CDC not only in laboratory science, but also
1070 | in safety. He works within the Hospital Infection Control
1071 | and Safety Unit of CDC to oversee a high-level working group

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1072 reporting to me. And they will develop in the next day or
1073 so, finalize criteria by which they will assess each of the
1074 laboratories.

1075 And then each laboratory will look at its own protocols
1076 and practices and determine whether they are validated,
1077 effective, and scientifically proven, and implemented in a
1078 way that we can be sure they will be applied. And then each
1079 laboratory will apply to him for resumption and lifting of
1080 the moratorium. I will review his recommendations and
1081 ultimately laboratory-by-laboratory a reopening of this
1082 process.

1083 I would just mention this is not a small thing because
1084 many of our laboratories that have BSL-3 laboratories have
1085 adjacent BSL-2 laboratories. And much of their work has to
1086 be done in the BSL-2, so they inactivate in the BSL-3 and
1087 then move it to the BSL-2. That work has all stopped at this
1088 point until we can ensure that we are doing it safely. And
1089 this is one of the things that really is a tipping point for
1090 improving the culture of safety at CDC.

1091 Mr. WAXMAN. One of the more disturbing findings of
1092 CDC's own report on this incident is that scientists use a

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1093 pathogenic strain of anthrax when they could have used a non-
1094 pathogenic strain, is that not correct?

1095 Dr. FRIEDEN. Yes, that is.

1096 Mr. WAXMAN. Well, when the moratorium is lifted and the
1097 BRRAT Lab is reopened, will you have clearer standards and
1098 protocols to make sure scientists are not unnecessarily using
1099 potentially dangerous strains of bacteria when it is not
1100 necessary?

1101 Dr. FRIEDEN. Yes.

1102 Mr. WAXMAN. GAO and APHIS both conducted investigations
1103 of the BRRAT Laboratory following the June anthrax exposure.
1104 Dr. Kingsbury and Dr. Dick, you believe the moratorium and
1105 lab closure an appropriate response to this incident, do you
1106 not?

1107 Mr. DICK. Yes, I do.

1108 Mr. WAXMAN. Okay. We should not forget today that the
1109 reason CDC conducts their special agent research is to help
1110 keep the American public safe. CDC serves a critical role
1111 for studying dangerous pathogens and finding cures and
1112 vaccines for deadly diseases. These labs are critical to our
1113 Nation's response to bioterrorism threats. So I am

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1114 | interested in learning about how this moratorium and the lab
1115 | closures are affecting the critical research that these labs
1116 | were conducting.

1117 | Dr. Frieden, how do the moratorium and lab closures
1118 | limit CDC's research capabilities? What happens to the
1119 | studies, some of which I am guessing were operating on
1120 | detailed schedules that were being conducted in the labs?

1121 | Dr. FRIEDEN. We are looking at the moratorium now in
1122 | detail and identifying any laboratories which need to resume
1123 | transfers for individual patient care or for public health
1124 | response with highest priority. And we expect that those
1125 | laboratories we will be able to get reopened for transfer
1126 | very soon.

1127 | But we have already heard from, for example, the
1128 | laboratory that deals with drug-resistant tuberculosis, that
1129 | laboratory that deals with Ebola, and the laboratory that
1130 | deals with Avian influenza, that they have deadlines coming
1131 | up for either patient care or public health response. And we
1132 | will address that very quickly. But we will always put
1133 | safety first.

1134 | Mr. WAXMAN. How do the closures and moratorium affect

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1135 research occurring at other labs outside of the Roybal
1136 campus?

1137 Dr. FRIEDEN. We provide proficiency testing and other
1138 materials to laboratories, and so there may be impacts on
1139 some of our partners. But the one that we are most aware of
1140 now and we will work to address before the deadline is
1141 provision of materials that companies need to make next
1142 year's flu vaccine. And we anticipate being able to do that
1143 on time.

1144 Mr. WAXMAN. My time has expired, but it seems to me
1145 that protecting the safety and health of your scientists, the
1146 moratorium, and the lab closures appear to be the appropriate
1147 response. Thank you, Mr. Chairman.

1148 Mr. MURPHY. Thank you. The gentleman's time has
1149 expired. I now recognize Mr. Barton for 5 minutes.

1150 Mr. BARTON. Thank you, Mr. Chairman. In answer to a
1151 previous question, Dr. Kingsbury raised the point about how
1152 many laboratories there are. The GAO has indicated that
1153 there are probably too many laboratories.

1154 My first question would be to you, Dr. Frieden. Why do
1155 we have so many laboratories, and are they all necessary?

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1156 Dr. FRIEDEN. I do not know that there is a right number
1157 of laboratories out there. Our job within CDC is to make
1158 sure that we only work with dangerous pathogens where it is
1159 necessary to do that and that we do so safely. And we will
1160 be taking a fresh look wherever we work with these pathogens
1161 internally at CDC to make sure that it is kept to the minimum
1162 necessary to serve the function of responding to infectious
1163 disease outbreaks.

1164 We still have anthrax in nature and respond to events
1165 like that. We still have Ebola with the largest outbreak in
1166 history now in West Africa. So the challenges we have are
1167 substantial.

1168 In terms of outside laboratories, our function in the
1169 Division of Select Agents and Toxins is to ensure that the
1170 laboratories that are there are operating safely.

1171 Mr. BARTON. Well, it would seem one to increase
1172 security would be to have fewer locations and fewer
1173 laboratories. I mean, if you are only using the extreme
1174 case, if you are trying to protect a hundred, that is going
1175 to be more difficult than if you are just trying to protect
1176 one.

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1177 I do not know what the magic number is, but I think
1178 especially since the GAO has said there are probably too
1179 many, that would be worthy of a look-see. Dr. Kingsbury, do
1180 you have an opinion on that?

1181 Ms. KINGSBURY. Well, I am not sure we have actually
1182 said there may be too many. I think what we have actually
1183 said is nobody knows how many there are, and nobody knows how
1184 many we need. And that goes beyond the scope --

1185 Mr. BARTON. Well, that is even worse in a way.

1186 Ms. KINGSBURY. Yes. That goes beyond the scope of CDC
1187 and APHIS. And until there can be some kind of strategic
1188 look at what our requirements are, and they may be changing
1189 because of things like the Ebola outbreak and so forth. But
1190 somebody ought to be thinking about this, I think, a little
1191 bit more broadly than a single agency at a time. And that is
1192 basically our point.

1193 Mr. BARTON. Well, I am going to ask the question. Why
1194 are there 435 members of Congress? What is magic about 435?
1195 And the answer is that is as many seats or desks at the time
1196 they could put on the House floor. When they got 435, they
1197 could not put anymore, and so it is an odd number, and they

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1198 | just stopped. But there is nothing magic about it.

1199 | Ms. KINGSBURY. That is correct.

1200 | Mr. BARTON. And the same thing with the laboratory
1201 | situation. I think there should be a strategic review, and
1202 | the sooner the better.

1203 | The staff has asked me to ask this question. It
1204 | concerns the fact that beginning in 2012, the United States
1205 | Department of Agriculture and the Centers for Disease Control
1206 | entered into a memorandum of understanding that allows the
1207 | USDA Animal and Plant Health Inspection Service to inspect
1208 | the CDC laboratories for compliance with the Federal Select
1209 | Agent Program. Since the Select Agent Program was authorized
1210 | in 2002, the CDC had been inspecting its own laboratory. Why
1211 | did CDC decide to turn its inspection process over to the
1212 | Department of Agriculture? Was that because CDC did not
1213 | think that it could do the job itself? I will ask Dr.
1214 | Frieden that.

1215 | Dr. FRIEDEN. We have made a number of improvements both
1216 | in our own laboratories and in our regulatory function
1217 | through the Division of Select Agents and Toxins. And as I
1218 | looked at this issue, I was concerned that there was at least

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1219 | the appearance that we could not be objective in inspecting
1220 | our own laboratories.

1221 | I did not believe that was the case. I believed that
1222 | one part of CDC which has no organizational affiliation with
1223 | another could do that objectively, but I did not think the
1224 | appearance was a good idea. So I required and APHIS
1225 | graciously agreed to take over inspections of our own campus
1226 | so that there would not be that appearance of a problem.

1227 | Mr. BARTON. If you had to do it over again, would you
1228 | do the same thing? Was it a good decision to let USDA do the
1229 | inspection?

1230 | Dr. FRIEDEN. Yes. I believe that decision was
1231 | appropriate. If I had it to do over again, I wish I had
1232 | recognized the pattern of incidents that we now recognize,
1233 | which is why we put those prior incidents into our July 11th
1234 | report.

1235 | Mr. BARTON. Okay. With, Mr. Chairman, I yield back, or
1236 | I can tell an Aggie joke. I yield back, Madam Chairman.

1237 | Mr. MURPHY. Okay. Thank you. He yields back. Now, I
1238 | will recognize Ms. Castor for 5 minutes.

1239 | Ms. CASTOR. Thank you very much, Mr. Chairman and the

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1240 ranking member, for calling this hearing today. I had the
1241 opportunity to visit the CDC last spring, and on the surface
1242 they appear very serious about laboratory security. And yet
1243 every few years there are these lapses, and now an anthrax
1244 scare, and an Avian flu issue that was not reported in a
1245 timely manner.

1246 And, you know, we have very high expectations for
1247 everyone at the CDC. I am impressed with everything that is
1248 happening there, but for the high containment biological
1249 laboratories to have these lapses is not acceptable.

1250 So it is really troubling that although numerous
1251 government agencies over the past few years have warned CDC
1252 about problems at the high containment labs, it appears CDC
1253 has not heeded those warnings. We know of at least 14
1254 separate reports, letters, and lab investigations from GAO,
1255 the U.S. Animal and Plant Health Inspection Service, and HHS
1256 Inspector General that documented a series of safety lapses
1257 and lack of oversight at CDC high containment labs.

1258 Dr. Kingsbury, your testimony is invaluable here. Can
1259 you tell us more about the concerns GAO has identified with
1260 regard to safety lapses at the high containment labs? You

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1261 have said now someone has got to look at the number of labs
1262 across the country as well. Who is that? What entity is
1263 that? What are your recommendations there?

1264 Ms. KINGSBURY. I wish I was in a position to say I know
1265 the answer to that. One of the difficulties that we faced in
1266 making that suggestion is that when you look around the
1267 government, because they are being built and managed across
1268 multiple agencies and each agency has its own mission and its
1269 own focus, it is difficult to think about who would be the
1270 single agency.

1271 We have discussed the issue with the Office of Science
1272 and Technology Policy at the White House, but while they have
1273 some overarching responsibilities, they do not have staff and
1274 management officials that would permit actually doing it that
1275 way.

1276 So we do not really have a good answer to that question,
1277 but we think it is worth just keeping the issue on the table,
1278 particularly in tight budget times.

1279 Ms. CASTOR. You mentioned in your opening statement
1280 that you have heightened concerns because of budget cuts.
1281 Talk a little bit about that. Is there a particular area we

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1282 | should be focused on?

1283 | Ms. KINGSBURY. Well, it is just that as I said in my
1284 | statement, the building, and management, and upgrade of these
1285 | kinds of laboratories is relatively expensive compared to
1286 | just building ordinary buildings. And so, if we are going to
1287 | have X number of laboratories, I would like to see the
1288 | strategy that was going to permit us even in tight budget
1289 | times to continue to fund them, to continue to upgrade them
1290 | when necessary, and to manage the biosafety and biosecurity
1291 | programs that are necessary to keep them safe. So that total
1292 | picture just is not available now, and that worries us.

1293 | Ms. CASTOR. Okay. Dr. Dick, do you think this has
1294 | anything to do with budget cuts?

1295 | Mr. DICK. I do not believe that it has anything to do
1296 | directly with budget cuts. We have been able to accomplish
1297 | our mission in support of the Select Agent Program over the
1298 | recent years and provide the funding that is necessary.

1299 | Ms. CASTOR. Okay. And before the June anthrax
1300 | incident, APHIS conducted at least six separate
1301 | investigations at CDC's Roybal campus facilities in 2013 and
1302 | 2014. Can you summarize your findings in those

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1303 | investigations?

1304 | Mr. DICK. Yes. I think there were a number of
1305 | findings, some of which were found in the recent finding,
1306 | some of which were not. Simple things that people maybe
1307 | think are simple, unlocked refrigerators, those kinds of
1308 | things, up to and including more serious incidents, if you
1309 | will around invalidation protocols not being up to date.

1310 | Ms. CASTOR. And, Dr. Frieden, it is troubling. I mean,
1311 | this has gone on for years now with GAO, APHIS, the Inspector
1312 | General, outside experts calling attention to these issues.
1313 | And I am encouraged because you have been forthcoming in your
1314 | statements. You have not been defensive. But what is your
1315 | current action plan now going forward in detail? Is there a
1316 | culture among researchers? What is it, and get specific for
1317 | us from this day forward with these recommendations, what are
1318 | you going to do in the timeframe? Thank you.

1319 | Dr. FRIEDEN. Well, first, I think for path incidents,
1320 | the staff at CDC and the scientists did take the report
1321 | seriously and did respond to those individual reports. What
1322 | we missed was a pattern. And you are absolutely right that
1323 | that pattern was an inadequate culture of safety. So the

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1324 overarching challenge now is to ensure that we establish and
1325 strengthen a culture of safety in all of our laboratories
1326 throughout all CDC. And there are a number of steps that we
1327 are doing to begin to do that.

1328 The first is the moratorium so that we can stop and
1329 think about that particular procedure of inactivation, make
1330 sure it is done right, the appointment of a single point of
1331 accountability for laboratory safety throughout CDC, the
1332 establishment of a working group that that person and Mr.
1333 Henderson will lead. The invitation to an external advisory
1334 group, and I intend to invite some of the leading independent
1335 experts of the country by the end of this week to serve on
1336 that advisory group for CDC. A hard look at all of the
1337 critical control points where there may be a problem with lab
1338 safety, and reviewing to make sure that we have protocols in
1339 place that are validated and verified. It gets back to that
1340 trust but verify approach.

1341 We need to make sure that we are empowering our
1342 laboratory staff to report and to identify ways to improve
1343 safety and security. We also need to verify that that is
1344 happening.

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1345 Mr. MURPHY. Okay, thank you. The gentlelady's time has
1346 expired. I will now recognize Ms. Blackburn of Tennessee for
1347 5 minutes.

1348 Ms. BLACKBURN. Thank you, Madam Chairman. Dr. Frieden,
1349 I want to come back to you. And if you will go to tab 15,
1350 the USDA APHIS investigation, and let us look at that. This
1351 started 10 days after the event. There was 18 days after
1352 possible exposure, and you had a lot of really awful basic
1353 errors. Even you admit there is not a culture of safety.
1354 There is not that double check system.

1355 And it is something that when you look at worker safety,
1356 how it was compromised, and then the management lacking the
1357 basic information on what substances to use to have the
1358 contamination cleaned up.

1359 So looking at this tab and that investigation, I want
1360 you to detail for the committee what new policies have been
1361 designed as a result of this and how did CDC guarantee that
1362 the new policies are followed, effective immediately.

1363 You know, our hospitals and organizations get all sorts
1364 of new rules from HHS on Friday afternoons at 4:00. They are
1365 effective immediately. So I want you to detail for us how

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1366 | you implemented that and what the new policies are.

1367 | Dr. FRIEDEN. So effectively immediately, all transfers
1368 | not just from these two laboratories, but from every single
1369 | BSL-3 and BSL-4 laboratory at CDC have been stopped.
1370 | Effective immediately, these two laboratories, the BSL-3,
1371 | part of the influenza laboratory, and the BRRAT Lab for the
1372 | bioterror response, have been closed. Those two laboratories
1373 | will not be reopened until both APHIS and I are confident
1374 | that they can be reopened safely.

1375 | We have also appointed a single point of accountability
1376 | to look at this and to review before we reopen, before we
1377 | begin anymore transfers, procedures that are in place to
1378 | ensure that they can be done safely.

1379 | Ms. BLACKBURN. How could it possibly have transpired
1380 | that your management team could not even decide on the
1381 | formula of bleach to use to clean up the contamination or to
1382 | see whether the on-site clinic was thorough and consistent in
1383 | examining the staff potentially exposed to the anthrax?

1384 | Dr. FRIEDEN. In the first week after the anthrax
1385 | potential exposure was identified, we did not respond in the
1386 | way that we would respond to an outside emergency. And that

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1387 is one of our after action findings that when we deal with
1388 emergencies, whether it is Ebola, or fungal meningitis, or
1389 another problem, we activate our Emergency Operations Center.
1390 Or even if we do not activate it, we utilize the resources of
1391 that center to have a systematic, structured, intensive,
1392 immediate response. That was not done for the first week
1393 after the anthrax potential exposure, and that is something
1394 that we will be sure to do in the event of any such internal
1395 event in the future.

1396 Ms. BLACKBURN. Let me ask you this. Did the management
1397 team get preferential treatment to the point that they were
1398 unaware that the staff was turned away?

1399 Dr. FRIEDEN. No. Absolutely not.

1400 Ms. BLACKBURN. Okay. And then why did the staff not
1401 feel confident in expressing their worries to their managers
1402 so that they could get adequate treatment?

1403 Dr. FRIEDEN. I am not certain what is behind that. I
1404 do know that part of encouraging and strengthening the
1405 culture of safety is making sure that people are encouraged
1406 and, in fact, reinforced and rewarded for bringing forth
1407 problems if they think there are problems and potential

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1408 problems.

1409 Ms. BLACKBURN. Do you think it had to do with the
1410 existing work culture that was there at the CDC?

1411 Dr. FRIEDEN. I think, you know, at CDC scientists are
1412 so used to risk, they go out into dangerous places where they
1413 are not sure what the risks are going to be. But sometimes
1414 if you work year in and year out with pathogens that are
1415 scary, you can get inured to that danger.

1416 Ms. BLACKBURN. Okay. Let me ask you another question.
1417 Once the June incident was discovered, why? Why did it take
1418 you so long to track down the anthrax, and why was not there
1419 a record of where this was stored?

1420 Dr. FRIEDEN. Well, on June 13th, as soon as we
1421 identified that there was the potential that any of the
1422 plates that were sent out of the containment lab were not
1423 sterile, we immediately recovered those plates and put them
1424 back in the secure facilities. That is the best of my
1425 understanding.

1426 Ms. BLACKBURN. Why was there not a record of where it
1427 was stored, and why was it stored in unlocked refrigerators,
1428 stuck in an un-posted room or in hallways?

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1429 Dr. FRIEDEN. My understanding, and we will have to
1430 confirm that in the coming days, is that those findings
1431 relate to primarily the materials that were believed to have
1432 been sterile and sent out of the laboratory. It is not as if
1433 there were anthrax cultures being kept in an unlocked,
1434 unsecured place.

1435 I think the point there was there was that once that
1436 initial error was made of thinking something had been
1437 inactivated when it had not been or may not have been
1438 inactivated, then that material was then out of the
1439 containment space. That is my understanding.

1440 Ms. BLACKBURN. Thank you. Mr. Chairman, I yield back.

1441 Mr. MURPHY. All right. I now recognize Mr. Green of
1442 Texas for 5 minutes.

1443 Mr. GREEN. Thank you, Mr. Chairman. First, for all of
1444 our panel, there are a number of Federal agencies that handle
1445 some of these substances, not just CDC. Is there a general
1446 protocol that all the agencies look at and coordinate
1447 handling these substances? Dr. Frieden?

1448 Dr. FRIEDEN. When it comes to select agents, then both
1449 CDC and APHIS establish standards and then inspect and

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1450 enforce those standards. Other than select agents, there are
1451 agency-by-agency or entity-by-entity approaches that may be
1452 specific to the type of research or to the type of agent.

1453 Mr. GREEN. Okay. So there is some umbrella type
1454 standard for all Federal agencies.

1455 Dr. FRIEDEN. For select agents there is.

1456 Mr. GREEN. Okay. Dr. Kingsbury, can you summarize your
1457 recommendations for us, and can you elaborate on which of
1458 these recommendations would require congressional action?

1459 Ms. KINGSBURY. If you are talking about our
1460 recommendations, I think that resolving this issue of whether
1461 there is a national strategy probably cannot be done without
1462 congressional action, and it will take some thought to get us
1463 there.

1464 Mr. GREEN. Okay. Dr. Frieden, do you agree with these
1465 recommendations, and will you be implementing them that you
1466 can within your control?

1467 Dr. FRIEDEN. In terms of laboratory safety
1468 recommendations for CDC, we will do everything to implement
1469 these recommendations. The report that we released on July
1470 11th has a number of steps that we are already beginning to

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1471 implement.

1472 Mr. GREEN. Okay. Any of them require congressional
1473 action, or is that something you control with your Agency?

1474 Dr. FRIEDEN. At this point, I am not aware of anything
1475 that would require congressional action for us to take
1476 appropriate steps.

1477 Mr. GREEN. Dr. Dick, do you have any recommendations
1478 for Congress or CDC that Congress needs to deal with?

1479 Mr. DICK. At this point in this investigation, we do
1480 not have anything that cannot be controlled through the
1481 Select Agent Program and our work with CDC.

1482 Mr. GREEN. Okay. Dr. Frieden, does CDC, based on the
1483 findings in your report, have any recommendation to Congress?
1484 You have none for us?

1485 Dr. FRIEDEN. We are focused on this point on doing our
1486 jobs as well as ensuring that we strengthen laboratory safety
1487 throughout CDC, and use the findings from this experience to
1488 strengthen our regulatory function through our Division of
1489 Select Agents and Toxins, which inspects and regulates
1490 hundreds of entities around the country that work with these
1491 materials.

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1492 Mr. GREEN. Okay. Let me ask you about the CDC budget.
1493 And, again, I have heard other questions from my colleagues
1494 that this was not a budget issue as much. Has CDC received
1495 adequate funding from Congress to conduct its safety mission,
1496 period? Obviously you have other missions.

1497 Dr. FRIEDEN. I think the challenges for safety are more
1498 than just funding. There are a variety of issues in
1499 implementing safety policies and procedures, and I do not
1500 think the primary issue here is a lack of funding.

1501 Mr. GREEN. Okay. Some of the witnesses we have been
1502 hearing from today have stated CDC employees need better
1503 training and that there needs to be better standard operating
1504 procedures, but overall there is a problem with the culture
1505 at CDC. Dr. Frieden, do agree with these assertions?

1506 Dr. FRIEDEN. I do agree with them. I think that while
1507 we have scientists who are the best in the world at what they
1508 do, they have not always applied that same rigor that they do
1509 to their scientific experiments to improving safety. And
1510 that is why we are taking a number of steps to strengthen the
1511 culture of safety at CDC.

1512 And part of that is to encourage reporting of potential

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1513 or actual problems. And because of that it is possible,
1514 though I do not know of anything at this point that I am
1515 aware of it, it is possible that in the coming weeks and
1516 months we will hear of other things in the past or that
1517 occur. And that may be a reflection that we have
1518 strengthened that culture of safety rather than that we
1519 failed to address it.

1520 Mr. GREEN. Well, if it is an issue of culture, and
1521 again, like you said, you have some great labs, and I am
1522 familiar with some of them. Is it just because they deal
1523 with these dangerous substances so often they get lax, and
1524 they are more interested in what they are working with than
1525 maybe the safety of what they are dealing with?

1526 Dr. FRIEDEN. I think that is a significant part of it,
1527 that if you work with something, even if it is a deadly
1528 microbe, day in and day out, year after year, you get a level
1529 of familiarity that may lead to doing things that you really
1530 should not do. And that is why we have to have double checks
1531 in place, policies and protocols, training, and a culture of
1532 safety with the vision that we will work to minimize risk
1533 such that no worker and the public are never exposed to a

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1534 risk that could have been prevented in our laboratories.

1535 Mr. GREEN. And I guess that complacency, it needs to be
1536 monitored literally every day 24/7 because of what you do.
1537 Is that part of what you are trying to do at CDC with the
1538 guidance for other agencies?

1539 Dr. FRIEDEN. Absolutely. That is what we have done by
1540 establishing a single point of accountability for laboratory
1541 safety, an empowered working group that will work with that
1542 individual, but emphasizing that even with that individual
1543 and even with that group, laboratory safety is really
1544 something that everyone who touched a laboratory needs to be
1545 conscious of and think of ways to continuously improve.

1546 Mr. GREEN. Okay. Mr. Chairman, I would hope that we
1547 would have a follow-up in a few months to see the success.
1548 And again, it is almost like re-training some of the smartest
1549 people in the country to be, you know, certain what they are
1550 doing with the substance they are dealing with. And I yield
1551 back my time.

1552 Mr. MURPHY. I think that is a good idea, but I do want
1553 to also, Dr. Kingsbury, when you were responding to Mr.
1554 Green's question about other congressional authorization

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1555 | would be required, can you get this committee details on what
1556 | that would be?

1557 | Ms. KINGSBURY. I do not actually have a basis on which
1558 | to be specific about what might need to be done. I think we
1559 | probably need to continue to work with your staff to talk
1560 | what through what some of the options might be going forward.

1561 | Mr. MURPHY. Thank you. Mr. Harper is recognized for 5
1562 | minutes.

1563 | Mr. HARPER. Thank you, Mr. Chairman, and thank you for
1564 | holding this hearing on a very important issue. And
1565 | certainly some agencies can be dysfunctional and there is no
1566 | concern or no real harm in that. But the CDC is one that
1567 | cannot be dysfunctional, so we are very concerned about
1568 | safety within the labs for obviously the workers there, and
1569 | certainly for the public on how we are going to address that.

1570 | And if I could, Dr. Frieden, to refer to Tab 7. That is
1571 | a letter that you sent in September 2012 to the committee
1572 | responding to concerns about CDC lab safety. In that you
1573 | stated that a senior official was designated to report
1574 | directly to you about safety issues and those things there.
1575 | Who was that senior official?

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1576 Dr. FRIEDEN. I will have to get back to you about that
1577 to get you the name and the details of what was done pursuant
1578 to that letter.

1579 Mr. HARPER. Okay. Then obviously the question would
1580 be, and I would you could have answered today, was who was
1581 that senior official, and what were the results of that
1582 action. And then the question that perhaps you can answer
1583 now is how is the appointment of Dr. Michael Bell as the new
1584 CDC point person over lab safety when we do not even know who
1585 the old point person was, how is that going to be more
1586 effective other than we know his name?

1587 Dr. FRIEDEN. What I believe to be the case is that we
1588 what we did in 2012 similar to what we did in other incidents
1589 was we did address comprehensively the specific problems that
1590 were identified. So there were some concerns about some
1591 airflow issues. There were concerns about some of the
1592 security issues in our laboratories.

1593 And while I would never say that we are 100 percent
1594 resolved on those things, we really focused on those
1595 particular problems. What we missed was the broader pattern,
1596 and that is what Dr. Bell is overseeing now.

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1597 Mr. HARPER. So does this mean that there will be always
1598 a point person, is that what your plan --

1599 Dr. FRIEDEN. Yes. Dr. Bell is the person now. We will
1600 transition that to a single point of accountability for lab
1601 safety. And one of the things that Dr. Bell and his group
1602 will do is to recommend where that entity should sit within
1603 CDC to be most effective.

1604 Mr. HARPER. Dr. Dick, the CDC reported that since 2007
1605 there have been two surprise inspections of CDC, both
1606 performed by CDC's Division of Select Agents and Toxins
1607 before APHIS took over inspections of CDC labs. Since 2012 I
1608 am showing that APHIS has conducted 11 inspections of CDC
1609 labs. I would like to know why APHIS has not conducted any
1610 surprise inspections of CDC labs, or have they done that?

1611 Mr. DICK. Thank you for the question. We conduct
1612 surprise inspections to enforce compliance between renewal
1613 inspections, which is every 3 years. As we stated, we came
1614 on in late 2012 as the oversight entity for CDC. At Roybal
1615 Lab, we actually have been there six, seven if you include
1616 this last incident, times in that year and a half. So we
1617 have not had an opportunity to do a surprise inspection since

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1618 we are there regularly.

1619 Mr. HARPER. So the last time a surprise inspection was
1620 done was when?

1621 Mr. DICK. We have not done a surprise inspection prior
1622 to taking over in 2012. I am not familiar with before that.

1623 Mr. HARPER. And obviously I will not ruin the surprise
1624 by asking when one is planned. But it does seem like we --

1625 Mr. DICK. We intend to follow up on --

1626 Mr. HARPER. -- that that is a great tool to have.

1627 Mr. DICK. Absolutely, and certainly first and foremost
1628 we are going to be following up on the current incident with
1629 them and making a revisit when CDC indicates that they are
1630 ready for us to revisit. And then we will be doing surprise
1631 inspections after that point.

1632 Mr. HARPER. Let us say that, and this is for you, Dr.
1633 Frieden, or for you, Dr. Dick. If it is determined that
1634 dangerous biological agent has been stolen, who do you report
1635 that to?

1636 Dr. FRIEDEN. So we have a protocol for dealing with
1637 theft. There has been no theft of biological agent reported
1638 from either CDC or any of the regulated facilities in the 10

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1639 | years of the program to my knowledge. When there are
1640 | concerns for potential theft or misplacement, we work with
1641 | law enforcement, including the FBI, to do a joint
1642 | investigation. I would just mention that our expansion of
1643 | surprise inspections was something that we directed over the
1644 | last few years at CDC because we felt that was very important
1645 | to do.

1646 | Mr. HARPER. So you said there have been no reports of
1647 | stolen agents.

1648 | Dr. FRIEDEN. That is my understanding.

1649 | Mr. HARPER. But what about missing biological agents?

1650 | Dr. FRIEDEN. There have been losses at certain
1651 | facilities, and in those circumstances we also coordinate
1652 | with the FBI. Usually it is an issue of inventory control,
1653 | so earlier we were talking about critical control points,
1654 | such as inactivation of virulent pathogens. Similarly,
1655 | inventory is a critical control point.

1656 | Mr. HARPER. Yield back.

1657 | Mr. MURPHY. Thank you. I do want to ask clarification
1658 | of Mr. Harper's question, though. When he asked about theft
1659 | of an item, your inventory control is not so tight that

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1660 | someone could not, I mean. Someone could take something,
1661 | replicate it, and walk out with something. Am I correct on
1662 | that?

1663 | Dr. FRIEDEN. Inventory control is one of the critical
1664 | controls to prevent loss or theft. But there have been to my
1665 | knowledge no thefts reported from any of the select agents
1666 | regulated labs, including CDC's, over the past decade.

1667 | Mr. MURPHY. Well, there was at the Army one in Texas, I
1668 | believe, a few years ago.

1669 | Dr. FRIEDEN. I am not familiar with that.

1670 | Mr. MURPHY. Thank you. Mr. Tonko, you are recognized
1671 | for 5 minutes.

1672 | Mr. TONKO. Thank you, Mr. Chair. Welcome to our
1673 | panelists. The CDC is responsible for registration and
1674 | oversight of all laboratories that possess, use, or transfer
1675 | select agents that could pose a threat to human health, while
1676 | APHIS is responsible for those select agents that pose a
1677 | threat to animal or plant health. Select agents that pose a
1678 | threat to both human and animal health, like anthrax, are
1679 | regulated by both CDC and APHIS.

1680 | So that being said, Dr. Kingsbury, can you tell us what

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1681 GAO has found with regard to the increase in the number of
1682 high containment bio labs?

1683 Ms. KINGSBURY. I have got that on. I am not sure I
1684 understand your question. I think within the Select Agent
1685 Program, I think there is information about how many
1686 laboratories there are, and they are regularly inspected as
1687 these gentlemen have just been saying.

1688 Our concern about the national strategy is that there
1689 are a lot of other laboratories that deal with highly
1690 infectious pathogens that are not considered to be select
1691 agents, and nobody knows how many of those laboratories there
1692 are.

1693 Mr. TONKO. But with the high containment bio labs, in
1694 that given category, is there an increase that has been
1695 measured by your review?

1696 Ms. KINGSBURY. I mean, I did not hear the word.

1697 Mr. TONKO. Is there an increase in the number of --

1698 Ms. KINGSBURY. There has been an increase since the
1699 anthrax attacks in 2001. The last time we actually tried to
1700 count them was 2 or 3 years ago, and I think at that point it
1701 looked like there were slightly fewer than there had been the

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1702 | year before, which we sort of thing is maybe just a budget
1703 | problem. But that, again, is the only ones that people are
1704 | actually aware of.

1705 | I think there are private entities and perhaps State
1706 | government entities that have BSL-3 and BSL-4 laboratories
1707 | that are not overseen in the --

1708 | And that is of a little concern to us.

1709 | Mr. TONKO. Well, what accounts for the growing numbers
1710 | of these labs that you suggested are out there?

1711 | Ms. KINGSBURY. Well, following the anthrax attacks in
1712 | 2001, there are a number of agencies whose missions touched
1713 | on the issue of biological weapons and whether those
1714 | pathogens could be used to attack our country. And so each
1715 | within their own sphere developed a program to counter those
1716 | possible threats, and each got funded by the Congress to
1717 | build additional laboratories and so forth. So it is just a
1718 | fragmented program that had a very strong rationale at the
1719 | beginning, but right now I think there is perhaps a different
1720 | rationale that might be articulated. But nobody is in charge
1721 | of doing that.

1722 | Mr. TONKO. So with this increase in the number of labs

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1723 and these various missions associated, what would your
1724 recommendations be to addressing --

1725 Ms. KINGSBURY. Well, we have made recommendations that
1726 there should be a single entity that has responsibility for
1727 developing a national strategic plan and national standards
1728 for the operations of high containment laboratories. The
1729 dilemma is figuring out how to do that in the current
1730 environment with competing interests among the agencies
1731 involved and so forth. There is even a competing interest
1732 issue in the Congress since different committees of the
1733 Congress have different jurisdictions over these different
1734 agencies.

1735 So it is a tough problem to solve, but we think it would
1736 be worth spending some time even at a theoretical strategic
1737 level to begin to address this issue and think through how we
1738 would go about doing it in the future.

1739 Mr. TONKO. And, Dr. Frieden, what are your views here
1740 in terms of the growing numbers of these labs and how to move
1741 forward with the activity here in the U.S.?

1742 Dr. FRIEDEN. I do think this is a complicated topic for
1743 which there is probably not a quick and simple solution. But

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1744 just logically, the more work with dangerous pathogens goes
1745 on, the more possibility there is of accidents or accidental
1746 releases. So ensuring the work that happens is happening in
1747 a safe environment is critical.

1748 And the key concept I think we have to apply is risk
1749 benefit. I do not think we can ever guarantee zero risk for
1750 some of the things that are done, but we can do everything
1751 humanly possible to get that risk as possible. But we have
1752 to ensure that the benefit is something that is reasonably
1753 likely to occur.

1754 Mr. TONKO. Thank you. Thank you very much. With that
1755 I yield back, Mr. Chair.

1756 Mr. MURPHY. Thank you. I now recognize Mr. Griffith
1757 for 5 minutes.

1758 Mr. GRIFFITH. Thank you, Mr. Chairman. I appreciate
1759 that, and I appreciate you all being here today to testify to
1760 us.

1761 Dr. Frieden, if I could get you to turn to Tab 5 in the
1762 booklet. And as you look at that Tab 5, that is the HHS
1763 Inspector General report regarding the CDC Roybal facility,
1764 which says it was sent to you. Have you seen this before at

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1765 | some point? The front page says it was sent to you.

1766 | Dr. FRIEDEN. I have it.

1767 | Mr. GRIFFITH. Okay. And then if I could direct you to
1768 | page 5, and on page 5 it says that the Inspector General's
1769 | Office could not verify that 10 out of 30 sample-approved
1770 | individuals for select agents had received the required
1771 | training. And do you see that on that pages?

1772 | Dr. FRIEDEN. Yes.

1773 | Mr. GRIFFITH. And likewise it says that select agent
1774 | inventory records are incomplete, and you also acknowledge
1775 | that that is on that page?

1776 | Dr. FRIEDEN. Yes.

1777 | Mr. GRIFFITH. And then if go over to page 6, the report
1778 | says that there were agents stored in areas not listed in the
1779 | registration. You see that at the top of the page as well,
1780 | page 6.

1781 | Dr. FRIEDEN. Yes.

1782 | Mr. GRIFFITH. Thank you. And one example given is that
1783 | scientists found a vial of select agent in a drawer and
1784 | another scientist discovered 16 vials stored in an unsecured
1785 | freezer. Do you see that in that paragraph?

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1786 Dr. FRIEDEN. Yes.

1787 Mr. GRIFFITH. Yes. And the report on page 6 also
1788 states that there were unauthorized transfers and packages
1789 received by unapproved individuals. Now, my concern is this.
1790 This is at the Roybal facility. Were these not the same kind
1791 of violations that then popped up and were found in
1792 subsequent inspections by the USDA in 2013 and 2014, and then
1793 revealed again in the matter that brings us here today in the
1794 anthrax and influenza incidents of 2014? Are they not the
1795 same types of problems?

1796 Dr. FRIEDEN. The answer is yes and no. The specific
1797 problems that were found led to a specific response. For
1798 example, on security we implemented layers of security. We
1799 strengthened the systems. We improved personal background
1800 checks and security. So in each of these, we felt --

1801 Mr. GRIFFITH. Let me ask you this question. Did you
1802 all do a system-wide after these problems were discovered
1803 because we have 2010, and then we have got 2013, and earlier
1804 in 2014? Did you all ever do a system-wide re-check?

1805 Dr. FRIEDEN. Not adequately. Not adequately. We
1806 addressed the specific problems, I believe, with a sincere

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1807 effort to rectify them, but what we missed was the broader
1808 pattern that we are now addressing by strengthening our
1809 culture of safety in our labs.

1810 Mr. GRIFFITH. All right, and I do appreciate that, and
1811 I know that you are having to answer a lot of tough
1812 questions, and I appreciate your demeanor here today. I do
1813 think that is appropriate and appreciated.

1814 That being said, let us look over page 7, and then on
1815 top of page 8 there are five recommendations there. If you
1816 could read those out loud that take place, and then let me
1817 know if they were followed up on.

1818 Dr. FRIEDEN. Well, I can shorten this by saying that
1819 the key one is the fifth, and the fifth has to do with
1820 confirming that materials are inactive before transferring
1821 them. And that was specifically what was not done in the
1822 anthrax incident. So if we had applied this broadly, this
1823 incident would not have happened.

1824 Specifically, just to give you a sense of it, in 2006,
1825 the same laboratory, the BRRAT Lab, had a pretty similar
1826 incident, and that why I directed that it put into our July
1827 11th report. And after that incident, they implemented a

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1828 standard operating procedure for that particular type of
1829 biological material leaving their laboratory. But when they
1830 had a different type of biological laboratory -- excuse me -
1831 - biological material leaving the same laboratory, they did
1832 not apply that standard operating procedure that would have
1833 inactivated it.

1834 So I do think it is the lack of adequate pattern
1835 recognition that has led us until these last few weeks not to
1836 undertake the kind of comprehensive, sweeping change and
1837 improvement in our laboratory safety culture that we are not
1838 implementing.

1839 Mr. GRIFFITH. Well, I appreciate that. Now, what about
1840 the other four? Number five may have been the most
1841 important, but could you look at the other four?

1842 Dr. FRIEDEN. The first has to do with physical security
1843 measures, and I believe we have taken a number of steps
1844 there. There are still steps that we need to do better on in
1845 that area having to do with staff coming in and not swiping
1846 in every time.

1847 Mr. GRIFFITH. And you have indicated you are going to
1848 have training, which is number three. What about number two?

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1849 Dr. FRIEDEN. Yes. I think we have made a great deal of
1850 progress on ensuring that only approved individuals are
1851 allowed access to select agents, and Mr. Henderson can speak
1852 more to that.

1853 Mr. GRIFFITH. All right. You have got 20 seconds to do
1854 number four.

1855 Dr. FRIEDEN. Inventory is an area where we have done a
1856 number of things, but given the recent incident at NIH and
1857 the fact that inventory is a flashpoint, we will be reviewing
1858 all of our inventory work. It is a massive job to do it
1859 right, but we will do that as well.

1860 Mr. GRIFFITH. Well, and I appreciate that. The safety
1861 of the American public rests in your hands. Thank you, and I
1862 yield back. Thank you.

1863 Mr. MURPHY. Thank you. I now recognize Ms. Schakowsky
1864 for 5 minutes.

1865 Ms. SCHAKOWSKY. Thank you, Madam Chairman. And I want
1866 to thank the witnesses. As you can see from the tone of this
1867 hearing, there is complete bipartisan concern about what
1868 happened here. And what I wanted to concentrate on is not
1869 the incidents themselves, but then the response in particular

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1870 to the anthrax release.

1871 The CDC report described delays in identification of
1872 potentially exposed individuals, and potentially affected lab
1873 rooms, and communication of the possible release of anthrax
1874 to all CDC staff that may have been exposed, and that there
1875 was no clear lead for response to this incident in the first
1876 week.

1877 So, you know, I know you have discussed a number of
1878 these things, but it is the management piece once a problem
1879 was discovered. And so, I wanted to ask you, Dr. Frieden,
1880 what was your response to this finding?

1881 Dr. FRIEDEN. This was our finding, and we indicated
1882 that when we deal with outside events, and we are currently
1883 dealing, for example, with Ebola in West Africa where we have
1884 the largest outbreak ever, we activate our Emergency
1885 Operations Center, or sometimes we will use the facilities of
1886 the Emergency Operations Center to manage our response more
1887 effectively.

1888 We should have done that the moment we learned of the
1889 potential exposure. What that allows us to do is break down
1890 a big problem into smaller problems and address them one by

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1891 one: communications, employee safety, clinical care,
1892 decontamination, scientific evaluation and investigation.
1893 And so, instead of doing that in a systematic way, it was
1894 done unsystematically, and not as well as it should have been
1895 done.

1896 In those first few days, which I remember vividly, we
1897 were really focused on the employees who may have been
1898 exposed and making sure that they got into care and got on
1899 treatment.

1900 Ms. SCHAKOWSKY. But it took a while to even identify
1901 who those people were.

1902 Dr. FRIEDEN. Yes. In the effort to do that, we
1903 identified that we did not have the kind of systems that were
1904 needed or the systems that we had in place were not used
1905 promptly, for example, viewing security camera coverage to
1906 see who had come into and left the facilities on time. That
1907 was not done because one part of the Agency did not know or
1908 did not use those resources. The root cause of that problem
1909 was not activating our Incident Command System.

1910 Ms. SCHAKOWSKY. Okay. Dr. Dick, can you elaborate on
1911 that finding about response?

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1912 Mr. DICK. Yes. I think our findings were very similar
1913 to Dr. Frieden's. We had an independent team that came in
1914 during. There was still an ongoing investigation by CDC and
1915 their staff, and our Select Agent Group was interviewing
1916 employees and workers from the various sections that were
1917 responding to this.

1918 We found very similar findings to those that he just
1919 indicated.

1920 Ms. SCHAKOWSKY. You know, I wanted to follow up for a
1921 second on what the chairman was saying about the possibility
1922 of even stealing something that is a threat. You know, in
1923 the smallpox incident, it turned out that the vials were
1924 discovered at NIH, but they could have been somewhere else.
1925 Nobody seemed to know. And that is really disturbing, too,
1926 that, you know, who knows? Somebody could have taken them
1927 out, I mean. So I am not sure when you say that nothing has
1928 been stolen, that it also says that nothing could have been
1929 stolen. Respond to that, Dr. Frieden?

1930 Dr. FRIEDEN. Well, we have taken a number of steps to
1931 strengthen the security aspects of select agent registration.
1932 Those steps include suitability assessments for all people

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1933 | who work with tier one agents. They include looking at cyber
1934 | security issues and personal reliability, ongoing access of
1935 | personnel who have access to tier one agents, increased
1936 | physical security standards, incident response plans, and
1937 | ongoing training. So I do think that the concern for theft
1938 | is real.

1939 | Some of these organisms still occur in nature and
1940 | ensuring that where there are laboratories not just in this
1941 | country, but around the world, that you test on them.

1942 | Ms. SCHAKOWSKY. Well, let us worry about this country
1943 | right now, and smallpox, of course, would be a big concern.

1944 | Let me just end with this, if I could, Mr. Chairman.

1945 | Whenever I hear the word "culture," and a "cultural problem,"
1946 | I know we have a real challenge on our hands, you know. Hand
1947 | washing change the face of medicine. It is not sexy, and
1948 | people do not win Nobel Prizes over that kind of thing. But
1949 | it really as part of the culture has made our medical system
1950 | much more successful, huge advance.

1951 | And so, these kinds of small things that deal with
1952 | culture, and attitude, and awareness of these kinds of very
1953 | simple things, we need to really figure out, you need

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1954 primarily to figure out how to make them part of the everyday
1955 thinking of your staff. And, you know, we are willing
1956 participants here. And I yield back.

1957 Dr. FRIEDEN. Thank you.

1958 Mr. MURPHY. Thank you. I now recognize Mr. Johnson of
1959 Ohio for 5 minutes.

1960 Mr. JOHNSON. Thank you, Mr. Chairman. And I, too, want
1961 to thank our witnesses for joining us today. Dr. Frieden, it
1962 looks like you are the guy on the hot seat. You are getting
1963 peppered with all the questions, and I have got a few for you
1964 as well.

1965 You know, the mission of CDC laboratories, as you well
1966 know, includes carrying out work to protect the American
1967 public against bioterrorist activities. Now, critical lab
1968 activities are shut down pending the outcome of your remedial
1969 evaluation and reform. So how will CDC be able to address
1970 any bioterrorism or other emergencies which might occur
1971 before they reopen?

1972 Dr. FRIEDEN. There is just one particular laboratory
1973 that is shut. There are multiple other laboratories at CDC
1974 that continue their operation that would be able to respond

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1975 to bioterrorist and a potential bioterrorist incident.

1976 Mr. JOHNSON. Okay. So there is no concern on your part
1977 that because of these CDC errors that we may be limiting our
1978 ability to protect the public.

1979 Dr. FRIEDEN. No, I am confident that the incidents that
1980 we saw did not cause any release of agents into the
1981 community. They most likely did not cause any actual
1982 exposure to CDC staff. But they really are a tipping point
1983 in our recognition of the need to improve our laboratory
1984 safety. But we are still fully functional in terms of being
1985 able to respond to an event.

1986 It is just that step of sending something out of a high
1987 containment space into a lower containment space that I have
1988 issued a moratorium on, and we will lift that laboratory by
1989 laboratory as soon as we are confident we can do that safely.

1990 Mr. JOHNSON. Okay. Is the CDC planning to use the
1991 National Science Advisory Board for Biosecurity as the
1992 external committee to advise CDC on laboratory quality and
1993 safety?

1994 Dr. FRIEDEN. What I intend to do is to invite an
1995 external advisory group specific to look at CDC and specific

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1996 to tell us every way they think we can do better in --

1997 Mr. JOHNSON. But what about the National Science
1998 Advisory Board for Biosecurity? Are you going to be using
1999 them?

2000 Dr. FRIEDEN. That is not our current plan to the best
2001 of my understanding.

2002 Mr. JOHNSON. Okay, because NIH on Sunday purged almost
2003 half of the members from that board, and I was inquisitive
2004 about whether you knew about this, why the Administration
2005 took this action, and whether or not NIH consulted. Do you
2006 use that advisory board for anything?

2007 Dr. FRIEDEN. I would have to get back to you. It is
2008 primarily managed by NIH, so I would have to defer to them
2009 for the management of that group.

2010 Mr. JOHNSON. All right. Well, that is good. That
2011 eliminates one question for you then. For Dr. Dick, in light
2012 of the anthrax incident investigation APHIS recently
2013 completed, do you think that prior inspections of CDC
2014 laboratories were sufficient?

2015 Mr. DICK. I do.

2016 Mr. JOHNSON. Okay. Well, given the fact select agents

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2017 | were stored in undesignated places, should not such problems
2018 | have come to light fully as a result of prior inspections?

2019 | Mr. DICK. Yes. I think the important thing to
2020 | recognize is that when we review their protocols, the
2021 | protocols were in place. And because of the primary cause of
2022 | this incident, and that was that this bacteria was not
2023 | inactivated, it was transferred to a laboratory that would
2024 | not necessarily have to have a locked cabinet. And so,
2025 | therefore, when we provide our report on select agents, as
2026 | was indicated earlier, we also report on those laboratories
2027 | where that select agent went, in this case not deactivated.

2028 | Mr. JOHNSON. Okay. All right. Well, that concludes my
2029 | questions, Mr. Chairman. I yield back the balance of my
2030 | time.

2031 | Mr. MURPHY. Thank you. I now recognize Mr. Long for 5
2032 | minutes.

2033 | Mr. LONG. Thank you, Mr. Chairman. Dr. Frieden, are
2034 | you familiar with this picture?

2035 | Dr. FRIEDEN. I certainly am.

2036 | Mr. LONG. Well, I am going to turn 59 years old in less
2037 | than a month, and this vial is dated 17 months before I was

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2038 | born. And apparently it was located in a cooler where?

2039 | Dr. FRIEDEN. On the NIH campus.

2040 | Mr. LONG. Last week.

2041 | Dr. FRIEDEN. A little over that.

2042 | Mr. LONG. In recent --

2043 | Dr. FRIEDEN. Yes.

2044 | Mr. LONG. Recently.

2045 | Dr. FRIEDEN. Yes.

2046 | Mr. LONG. So this vial of smallpox that is older than I
2047 | am had been in a cooler, am I given to understand, in one
2048 | location? I cannot even imagine a cooler running for 60
2049 | years, 61 years.

2050 | Dr. FRIEDEN. My understanding is that it was a walk-in
2051 | cold room that was used for storage.

2052 | Mr. LONG. And someone walked in and discussed this
2053 | smallpox.

2054 | Dr. FRIEDEN. What happened was that that laboratory, as
2055 | I understand it, was transitioned from NIH to FDA many years
2056 | ago when FDA took over some of those functions. FDA is
2057 | moving into its new facilities. In the course of moving, it
2058 | was doing a complete inventory of everything in its facility,

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2059 and the workers there discovered a large box that had this
2060 vial and others in it.

2061 Mr. LONG. Workers like moving workers?

2062 Dr. FRIEDEN. No, laboratory scientists.

2063 Mr. LONG. Lab workers.

2064 Dr. FRIEDEN. Sorry, laboratory scientists, yes.

2065 Mr. LONG. Okay. Well, recently there was a case of
2066 someone that wanted to remove information from NSA, and he
2067 got in a position to do that. And with a \$1,500 thumb drive,
2068 he was able to take all kinds of severe government secrets
2069 with him out of his position he had worked in. Does it
2070 bother you at all that people could, if they had cruelty and
2071 meanness in mind, that they could not get into a cooler like
2072 this and take a 61-year-old vial of smallpox?

2073 Dr. FRIEDEN. We are certainly concerned that smallpox,
2074 which should not have been there, was there for many years.
2075 And we want to ensure that on our campus, and NIH is looking
2076 at their campus, and FDA at theirs, there are not other
2077 examples of collections because this was a collection or
2078 organisms that are in place and in places where they should
2079 not be.

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2080 This particular box was clearly created by a scientist
2081 who was very experienced or a group of scientists. The
2082 materials were essentially freeze dried, or lyophilized is
2083 the scientific term for it, and then sealed in that ampule
2084 that you held up the picture of. And that was done before
2085 smallpox eradication was undertaken, so it was not done with
2086 malicious intent. It was done just to preserve something for
2087 future --

2088 Mr. LONG. No, no, I know that, but just the fact that
2089 this could lay around for 61 years. I cannot even conceive
2090 of that thought. But let me take you to a press conference
2091 last Friday now that we have moved from 61-plus years ago.
2092 At a press conference last Friday, you indicated that the CDC
2093 does research to figure out how better to treat people if
2094 they exposed and prevented, if they are exposed, and how
2095 better to prevent it through vaccination. You also stated
2096 the fact that anthrax continues to continue in nature, that
2097 anthrax has been used as a weapon.

2098 My question is this. How many CDC laboratory workers
2099 received the FDA licensed anthrax vaccine prior to the
2100 anthrax incident last month as recommended by the CDC, its

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2101 | Advisory Committee on Immunization, Practices Committee for
2102 | Lab Workers since 2002?

2103 | Dr. FRIEDEN. I would have to get back to you on the
2104 | exact number, but we offer anthrax vaccine to anyone for whom
2105 | anthrax vaccine is indicated. We do not require to get
2106 | vaccinated, but we offer it to anyone who might be exposed
2107 | through their laboratory or epidemiologic work.

2108 | Mr. LONG. So you think that is a pretty active program?

2109 | Dr. FRIEDEN. Oh, yes.

2110 | Mr. LONG. Do you have any idea? I mean, you say you
2111 | have to get back to me, which is fine if you will. I
2112 | appreciate it.

2113 | Dr. FRIEDEN. I would have to get back to you.

2114 | Mr. LONG. Okay, because it is reported that you told
2115 | Reuters on June 30th the fact that anthrax exposure was even
2116 | a concern or that it might have happened is unacceptable.
2117 | Employees should never have to be concerned about the safety
2118 | from preventable exposures. And as you note, to date more
2119 | than 12 million of BioThrax, the FDA licensed anthrax
2120 | vaccine, have been administered to more than 3 million
2121 | individuals. So if you can get back to me with that, I would

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2122 appreciate it.

2123 Dr. FRIEDEN. I will.

2124 Mr. LONG. And with that, Mr. Chairman, I yield back.

2125 Mr. MURPHY. Thank you. I now recognize Ms. Ellmers of
2126 North Carolina for 5 minutes.

2127 Ms. ELLMERS. Thank you, Mr. Chairman, and thank you to
2128 our panel. This is a very good discussion, and I appreciate
2129 your candid responses. I think that at this point the most
2130 important thing that we all can do is get to the bottom of it
2131 and correct the issues at hand so that these things do not
2132 happen again.

2133 I did want to clarify something. Dr. Frieden, there was
2134 a question posed to you about the number of missing possible
2135 toxic substances. And I know you had acknowledged that over
2136 time there has been an account of some missing, but not
2137 stolen, correct? If something is missing, how do you
2138 determine that it absolutely was not stolen? And if anyone
2139 else on the panel would like to comment on that, I would
2140 appreciate it as well.

2141 Dr. FRIEDEN. So to give you an example, there may have
2142 been a package that was sent from one location to another and

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2143 | had a select agent in it. It did not arrive at the second
2144 | location. The FBI was involved in that investigation, and
2145 | the FBI concluded in one particular case as an example that
2146 | the package had been inadvertently destroyed, but it had not
2147 | been stolen or lost. Is there anything you would like to add
2148 | to that?

2149 | Mr. DICK. Just one thing I think is important is we
2150 | take the notion of chain of custody very seriously, so we are
2151 | always trying to be mindful of where the select agents are
2152 | stored, and if they are in transport, we have eyes on them or
2153 | somebody trusted to be with them as much as possible.
2154 | Occasionally, Dr. Frieden is correct, there could be an
2155 | accounting issue where something has been destroyed and they
2156 | did not complete the paperwork, and then we have to go and
2157 | try to understand what happened. And there have been a
2158 | couple of instances like that.

2159 | Ms. ELLMERS. Okay. Thank you for clarifying that for
2160 | me. And then, again getting back to just some of the toxic
2161 | substances that have been found in, you know, boxes that may
2162 | not have stated what they were, you know, in a refrigerated
2163 | walk-in storage or otherwise. When the NIH ran across their

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2164 | most recent problem, they put in place what they call a clean
2165 | sweep. And I know you had said that there was a transition
2166 | between NIH and FDA. Were they already in the process? I
2167 | mean, is that what the clean sweep is that you were talking
2168 | about, or did they institute the clean sweep afterwards?

2169 | Dr. FRIEDEN. My understanding is that both NIH and FDA
2170 | are doing complete inventory checks and follow-up to the
2171 | discovery of the smallpox vials.

2172 | Ms. ELLMERS. Okay. So once that happened. So I guess
2173 | my question for you is, is the CDC doing the same?

2174 | Dr. FRIEDEN. yes. We will undertake a comprehensive
2175 | inventory review at all of our facilities.

2176 | Ms. ELLMERS. At all the facilities.

2177 | Dr. FRIEDEN. That is my understanding.

2178 | Ms. ELLMERS. Including the one that is shut down now
2179 | obviously.

2180 | Dr. FRIEDEN. Yes. Yes.

2181 | Ms. ELLMERS. But all of them.

2182 | Dr. FRIEDEN. All of lab facilities.

2183 | Ms. ELLMERS. Great. Well, thank you. I have time if
2184 | anyone wants to use it, Mr. Chairman. But I yield back right

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2185 | now if no one else wants my time.

2186 | Mr. MURPHY. Right. I believe that concludes our first
2187 | panel. So I thank all the witnesses for coming today, and we
2188 | will just let you step away while we prepare the second
2189 | panel.

2190 | I would also remind everybody that we will have some
2191 | follow-up questions for you, so please get back to us in
2192 | quick.

2193 | Ms. DeGETTE. Mr. Chairman, will you yield for one
2194 | second?

2195 | Mr. MURPHY. Yes, I will be glad to.

2196 | Ms. DeGETTE. I would just hope that we would have this
2197 | panel back in the fall after Dr. Frieden completes his
2198 | investigation and puts his controls in place. I think it is
2199 | really important for us to know what they are doing, and I
2200 | know they are working hard on this.

2201 | Mr. MURPHY. I agree with that, and we would like to
2202 | hear again, so we will have you back.

2203 | [Recess]

2204 |

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2205 Mr. MURPHY. Well, while they are getting ready, I will
2206 get the next panel introduced. We will have Mr. Sean
2207 Kaufman, who is the president and founding partner of
2208 Behavioral-Based Improvement Solutions, LLC. We also have
2209 Dr. Richard Ebright, who is a Board of Governors professor of
2210 chemistry and chemical biology at Rutgers University, and
2211 laboratory director at the Waksman Institute of Microbiology.

2212 While the witnesses are stepping up here, I will be
2213 swearing them in. Are you sitting in your right seats there?
2214 I am sorry, I do not know what the means. Mr. Kaufman, are
2215 you ready? Where is Dr. Ebright? The witness is AWOL I
2216 guess.

2217 Mr. MURPHY. What we may do getting going here, Mr.
2218 Kaufman, let me swear you in so you can get started on your
2219 testimony, and then we will swear in Dr. Ebright when he
2220 returns.

2221 So you are aware the committee is holding an
2222 investigative hearing and doing so has a practice of taking
2223 testimony under oath. Do you have any objections to
2224 testifying under oath?

2225 Mr. KAUFMAN. No.

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2226 Mr. MURPHY. And advise you under the rules of the
2227 House, you can be advised by counsel. Do you have a desire
2228 to be advised by counsel during testimony today?

2229 Mr. KAUFMAN. That is correct.

2230 Mr. MURPHY. You do have counsel with you?

2231 Mr. KAUFMAN. I do not.

2232 Mr. MURPHY. Okay, thank you. Could you please raise
2233 your right hand and I will swear you in.

2234 [Witness sworn.]

2235 Mr. MURPHY. Thank you very much. You are now under
2236 oath subject to the penalties set forth in Title 18, Section
2237 1001 of the United States Code. You may now give a 5-minute
2238 summary of your written statement. Go ahead.

2239

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2240 TESTIMONIES OF SEAN KAUFMAN, PRESIDENT AND FOUNDING PARTNER,
2241 BEHAVIORAL-BASED IMPROVEMENT SOLUTIONS, LLC; RICHARD EBRIGHT,
2242 RUTGERS UNIVERSITY, BOARD OF GOVERNORS, PROFESSOR OF
2243 CHEMISTRY AND CHEMICAL BIOLOGY

2244

2245

2246 TESTIMONY OF SEAN G. KAUFMAN

2247

2248 Mr. KAUFMAN. Fantastic. Thank you. Chairman Murphy,
2249 Ranking Member DeGatte, and the members of the subcommittee,
2250 thank you for the opportunity to be here to testify on the
2251 Centers for Disease Control and Prevention anthrax laboratory
2252 incident.

2253 Let me begin by commending the CDC, specifically the
2254 actions taken to protect the workforce and inform the general
2255 public during this very serious issue. I stand by my belief
2256 that when someone does something wrong, we cannot forget what
2257 they have done right, and in general we must not forget that
2258 CDC has an outstanding history of service.

2259 For over 10 years I have been providing biosafety
2260 training programs for individuals working in high containment

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2261 laboratories. My background is in behavioral science, and I
2262 specialize in motivating individuals to behave to mitigate
2263 risks associated with infectious diseases.

2264 There are three main challenges we face when doing
2265 scientific research: the agent, the people working with the
2266 agent, and the organization where the work is being done.
2267 The first challenge of working safely with infectious agents
2268 has been for decades, and can be, appropriately mitigated.
2269 Effective engineering controls, personal protective
2270 equipment, and standard operating procedures are already in
2271 place. However, it is important to recognize that one person
2272 and one error, whether it is unintentional or intentional,
2273 can negate all these controls in an instant.

2274 This leads me to the second challenge we face when
2275 looking at safe science, and that is the people working with
2276 the agent. Human risk factors, such as risk perceptions,
2277 attitudes, behavior, complacency, outrage, apathy, and
2278 perceived mastery must be addressed to sustain optimal
2279 performance of the scientific workforce.

2280 We must accept and learn from and control for human
2281 error in laboratory environment. In other words, we must

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2282 stop focusing on the who and start focusing on the why, how,
2283 and what went wrong, passing no judgment other than we are
2284 all human, which would lead to solutions minimizing human
2285 error.

2286 Our final and greatest challenge is the existing social
2287 norms or safety culture within an organization. Let me
2288 repeat myself. The greatest challenge we face specific to
2289 safe science is not the agent. It is not the worker. It is
2290 the culture of the organization. The culture of an
2291 organization permits norms to be developed, and it is within
2292 these norms that behavior is either deemed acceptable or
2293 unacceptable.

2294 As a former proud CDC employee, I am very, very
2295 disappointed by what I am hearing. It has been and remains
2296 very clear that this issue is a systemic one or an
2297 organizational issue rather than an issue of a laboratory
2298 director and two scientists. I have become irritated by the
2299 unnecessary finger pointing and statements surrounding
2300 disciplinary actions of scientists who worked in parallel
2301 with the organization and made an unintentional error.

2302 The incident highlights the need for scientific

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2303 protocols to be reviewed and verified, ensuring they work and
2304 they can be done by those working in a laboratory. This
2305 incident highlights the need to ensure those protocols are
2306 followed, and if they are not, consequences aimed at
2307 minimizing future failures are immediately applied.

2308 This incident calls for more evidence-based biosafety
2309 research to determine what specifically works and minimize
2310 risks associated with the challenges that we face, which
2311 again are the agent, the people, and the organization.

2312 In the years I have been doing training, I have been
2313 forced to speak a common language around the world. No
2314 matter where you are in the United States of America or
2315 around the world, people relate to the concept of
2316 neighborhood, house, and family. I have used a home, sweet
2317 home for establishing a healthy culture in my laboratory
2318 trainings.

2319 Please consider this analogy. A laboratory is a home.
2320 The scientist working within the laboratory are a family.
2321 The scientific protocols are the house rules. If one member
2322 of the family breaks the house rules, it puts the whole
2323 family at risk. If breaking the rules is not addressed, the

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2324 whole house is at risk and begins to affect other houses in
2325 the neighborhood.

2326 Let me clarify. If scientists do not follow their house
2327 rules, it impacts other laboratories within the organization.
2328 CDC is a neighborhood that houses hundreds of houses or
2329 actually has hundreds of labs. If the neighborhood does not
2330 establish a set of ground rules for all the houses, then each
2331 house begins to do their own thing, and inevitably the
2332 neighborhood is at risk.

2333 Building a culture of safety starts with establishing a
2334 commitment to the residents, or the scientists, of that
2335 neighborhood or that organization. We do not banish family
2336 members for unintentional errors. We encourage homeowners or
2337 labs directors to come together and find solutions. We
2338 establish consequences for neighborhood members, scientists
2339 who blatantly choose to break neighborhood rules. We support
2340 each other, especially when unintentional accidents occur.

2341 We talk about incidents, not hide them, so the whole
2342 neighborhood learns and grows from them. We recognize that
2343 together we are safer. This commitment is contagious and
2344 spreads to homes throughout the neighborhood, and that

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2345 includes laboratories throughout an organization. This is
2346 just the start of culture change, folks. The seed we plant
2347 today is what we will reap 5 years from now.

2348 Somewhere out there may be a scientist or an
2349 organization who finds something unexpected in a freezer, or
2350 as a human being makes an unintentional error. A choice has
2351 to be made. Do I report this or not? I ask this committee
2352 to facilitate a process which encourages organizations to
2353 report incidents and accidents rather than punishing them for
2354 doing so.

2355 CDC remains a national treasure, and the United States
2356 of America remains the land of opportunity of scientists and
2357 biological research. Placing untested mandates as a result
2358 of this incident on scientists and institutions of research
2359 may not only push science and innovation outside of
2360 infectious disease research, but worse, it could shift it to
2361 other regions of the world.

2362 I ask this committee to continue to take a leadership
2363 role while considering the implications of this hearing and
2364 future legislation. I look forward to your questions.

2365 [The prepared testimony of Mr. Kaufman follows:]

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2369 Mr. MURPHY. Thank you, Mr. Kaufman.

2370 Dr. Ebright, you were not available when I swore him in,
2371 so I am going to have to swear you in. But first ask you
2372 when we are doing an investigative hearing, we take testimony
2373 under oath. Do you have any objection to testifying under
2374 oath?

2375 Mr. EBRIGHT. I do not.

2376 Mr. MURPHY. And the chair advises under the rules of
2377 the House and the rules of the committee you are entitled to
2378 be advised by counsel. Do you desire to be advised by
2379 counsel today?

2380 Mr. EBRIGHT. I do not.

2381 Mr. MURPHY. In that case, would you please rise and
2382 raise your right hand, and I will swear you in.
2383 [Witness sworn.]

2384 Mr. MURPHY. Thank you. You are now under oath and
2385 subject to the penalties set forth in Title 18, Section 1001
2386 of the United States Code. You may now give a 5-minute
2387 verbal summary of your written statement.

2388

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2389 TESTIMONY OF RICHARD EBRIGHT

2390

2391 Mr. EBRIGHT. Mr. Chairman, members of the committee,
2392 thank you for inviting me to discuss the 2014 CDC anthrax
2393 incident and its implications. I am a Board of Governors
2394 professor of chemistry and chemical biology at Rutgers
2395 University and laboratory director at the Waksman Institute
2396 of Microbiology. I will discuss three topics: first, the
2397 2014 CDC anthrax incident; second, broader biosafety and
2398 biosecurity issues in CDC bioweapons agents laboratories,
2399 also known as select agent laboratories; and, three, broader
2400 biosafety and biosecurity issues at the more than 1,000 other
2401 government, academic, and corporate select agent laboratories
2402 across the U.S. that are regulated by the CDC.

2403 My assessments are based on information in published
2404 CDC, HHS OIG, USDA OIG, GAO documents, published press
2405 reports, and on my knowledge of biosafety and biosecurity
2406 standards for work with bacterial pathogens. I turn first to
2407 the 2014 CDC anthrax incident.

2408 I note that the 2014 CDC anthrax incident did not
2409 involve one violation in one laboratory, but instead involved

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2410 an entire series of violations. The 2014 CDC anthrax
2411 incident involved multiple violations of biosafety and
2412 biosecurity recommendations in each of three different CDC
2413 laboratories. There were at least seven distinct violations
2414 in total. Had any of three violations in one CDC laboratory
2415 not occurred, the incident would not have occurred. Had any
2416 of four violations in two other CDC laboratories not
2417 occurred, the impact of the incident would have been
2418 mitigated.

2419 I note further that the incident reprised nearly exactly
2420 a 2004 incident. In the 2004 incident, workers at Southern
2421 Research Institute in Frederick, Maryland used an
2422 inappropriate procedure to inactivate a sample of anthrax
2423 bacteria, used an inappropriate procedure to verify
2424 inactivation, and sent putitatively inert, but actually
2425 viable, anthrax bacteria to Oakland Children's Hospital,
2426 where eight persons were exposed before learning that the
2427 anthrax bacteria were viable.

2428 The CDC as the Agency with regulatory responsibility for
2429 select agent work relevant to human health, investigated the
2430 2004 Oakland anthrax incident, and in 2005 issued a report on

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2431 the incident. The 2005 CDC report included revised biosafety
2432 and biosecurity recommendations both for laboratories that
2433 prepare and provide inactivated anthrax bacteria and for
2434 laboratories that receive and use those inactivated anthrax
2435 bacteria.

2436 Had the CDC implemented the recommendations in its own
2437 2005 report, the 2014 CDC anthrax incident could not have
2438 occurred. But the CDC did not implement the recommendations
2439 in its 2005 report. The fact that the CDC in 2014 made
2440 exactly the same errors that had been made in the 2004
2441 Oakland anthrax incident shows that the CDC did not learn
2442 from that incident.

2443 I turn now to biosafety and biosecurity in CDC's select
2444 agent laboratories. I submit that the 2014 CDC anthrax
2445 incident is not an isolated incident, but it is instead part
2446 of a pattern, and a pattern that could have been recognized a
2447 half decade ago, and should have been. Last week, a CDC
2448 report listed multiple other incidents, none previously
2449 disclosed to the public, in which CDC laboratories sent
2450 putitatively inactivated or attenuated, but actually viable
2451 and virulent select agents to other laboratories. These

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2452 | previously undisclosed CDC select agent incidents are
2453 | fundamentally similar to the 2014 incident. In particular
2454 | two previously undisclosed incidents from 2006 involved
2455 | anthrax and appeared to be essentially identical to the
2456 | current incident. All of these incidents raise both safety
2457 | and security concerns.

2458 | I note further that HHS OIG audits have documented
2459 | further biosafety and biosecurity violations in CDC select
2460 | agent labs. HHS OIG audits of the CDC select agent labs in
2461 | 2008, 2009, and 2010 reported major violations. These
2462 | violations included failures to ensure physical security,
2463 | failures to restrict access, and failures to document
2464 | inventories. They also included the failure to provide
2465 | required training to workers with training being unverifiable
2466 | for fully one in three workers in the most recent available
2467 | report. Perhaps most egregiously, the violations included
2468 | unauthorized transfers to select agent labs to other
2469 | laboratories or individuals.

2470 | I note further that press reports from 2007 to the
2471 | present have documented further biosafety and biosecurity
2472 | deficiencies in CDC select agent laboratories. Examples just

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2473 to summarize include inadequate provisions for emergency
2474 backup power, failure to maintain negative pressure airflow
2475 in bio containment areas, non-functioning doors, non-
2476 functioning door seals, jury-rigged repairs with duct tape,
2477 failure to close entry doors, failure to latch entry doors,
2478 failure to assign distinct key codes to the key cards for
2479 select agent laboratories, and in at least one case, the
2480 discovery of an unescorted, unauthorized person in a
2481 restricted area. Taken together, the available documents
2482 indicate that the CDC has not adequately ensured biosafety
2483 and biosecurity in its own labs, and are consistent with
2484 pervasive and systematic violations of biosafety and
2485 biosecurity in its own labs.

2486 I turn now to biosafety and biosecurity at CDC.

2487 Mr. MURPHY. Could you summarize the rest of your
2488 statement here because we are --

2489 Mr. EBRIGHT. Regulated select agent labs. The CDC and
2490 the USDA have regulatory responsibility for biosafety and
2491 biosecurity in the approximately 1,000 other U.S. select
2492 agent labs: government, academic, and corporate. There is
2493 no basis for confidence that biosafety and biosecurity

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2494 standards are higher or that select agent inspections are
2495 more stringent at CDC regulated, non-CDC select agent labs,
2496 than in CDC select agent labs. There also is no basis for
2497 confidence that biosafety and biosecurity standards are
2498 higher or that select agent inspections are more stringent at
2499 USDA regulated select agent laboratories than CDC select
2500 agent laboratories.

2501 Deficiencies in select agent standards at these CDC
2502 regulated and USDA regulated other laboratories are amply
2503 documented in an HHS and USDA OIG audits.

2504 Mr. MURPHY. Doctor, we are over time. I will give you
2505 15 more seconds.

2506 Mr. EBRIGHT. One final point, which is I note that the
2507 CDC and USDA not only performed and fund select agent work,
2508 but also regulate biosafety and biosecurity for select agent
2509 work. This represents a clear conflict of interest. This
2510 systematic clear conflict of interest may at least partly
2511 account for the deficiencies that I have mentioned. Thank
2512 you.

2513 [The prepared testimony of Mr. Ebright follows:]

2514

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2515 | ***** INSERT 5 ***** |

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2517 Mr. MURPHY. I thank the two witnesses. I will now
2518 recognize myself for 5 minutes.

2519 Mr. Kaufman, you specialize in the area of behavior and
2520 behavioral change, along those lines. We have heard from you
2521 and other witnesses today this culture of complacency is a
2522 concern. Congress has investigated at length problems at the
2523 Veterans Administration. We are outraged because of the care
2524 we have for our veterans. But we saw that there were cash
2525 incentives for people to cover things up, to shred them, to
2526 hide waiting lists.

2527 We also had in this committee hearing with Mary Barr,
2528 the CEO of General Motors. Americans were outraged about
2529 this, and it was described as the culture of complacency or
2530 the GM nod. Now we see this behavior problem getting into an
2531 area of which before if you were not a veteran or if you did
2532 not buy those Chevy cars, you were at least not at risk. But
2533 this, when you release a pathogen, it is pretty
2534 indiscriminate around anybody who is exposed to it.

2535 So does this routine familiarity around pathogens tend
2536 to lead people to cut some corners and just complacent about
2537 this?

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2538 Mr. KAUFMAN. I think that there is a, and I believe you
2539 know this, too. I think that there is an inherent risk in
2540 behavior in general. You over-behave, you run the risk of
2541 becoming complacent. You under-behave, you run the risk of
2542 being under prepared. I think it is a very, kind of a
2543 balance, and that, in essence, is really, in essence, what
2544 professional development, and training, and assessments can
2545 be used for is to keep that healthy balance in check.

2546 In this case, though, if we are talking about the
2547 anthrax incident in the laboratory, I do not believe that
2548 this was a complacency issue or even an incompetency issue.
2549 I believe this was a scientist that implemented a protocol
2550 from another laboratory where it was used for good purposes,
2551 and I would love to share what those purposes are. And
2552 unfortunately there was no process to vet that protocol.

2553 And so, when it was adapted from one laboratory to
2554 another, the inactivation time it takes to kill one agent
2555 versus another is a lot more with the spore forming BA or
2556 bacillus anthracis than it was with the brucella.

2557 Mr. MURPHY. But we heard so many things that Dr.
2558 Ebright was just saying, too, the way the doors were handled,

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2559 | that we have heard about people being in an area that they
2560 | were not authorized to be there, that a key was left in a
2561 | refrigerator. It seems to me there are several other
2562 | elements here where rules are in place and people are just
2563 | downright sloppy.

2564 | Mr. KAUFMAN. Yes. Chairman Murphy, I think the things
2565 | that you are saying are very true, and they actually must be
2566 | addressed and concerned. But I think they also have to be
2567 | put into perspective. You know, this key in a freezer is
2568 | almost like, and you used a loaded gun or a gun earlier in
2569 | the session. It is almost like saying that I have a house,
2570 | and inside my house I have a gun, and my house has a door
2571 | with locks, and it also has a house alarm. And upstairs in
2572 | the master bedroom is hidden a safe, and inside that safe is
2573 | a gun with a trigger lock that has a key in it.

2574 | Mr. MURPHY. But that is not the case here. If a key
2575 | was left in the refrigerator and people can come into that
2576 | area, too, if people were all piggybacking on each other's
2577 | card here, those are violations of rules.

2578 | Mr. KAUFMAN. Chairman Murphy, like I said, I am not
2579 | going to argue the fact that it is a problem because it is.

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2580 But I am discussing the perspective, and I am telling you I
2581 have seen those refrigerators. They are not common practice
2582 refrigerators that people just go walking by. These
2583 refrigerators are in places where you actually have to have
2584 access.

2585 I came in as a civilian. I am not related to CDC. I
2586 have been to the laboratory. I have seen these freezers.
2587 They are not --

2588 Mr. MURPHY. Well, but the issue is how people behaved,
2589 and that is a question I had for Dr. Frieden before is should
2590 someone be required to use their actual card so only certain
2591 persons can get in, whoever has authorization. It records
2592 when they were in there. And in some cases the deadly
2593 pathogens require two sets of eyes in there.

2594 Mr. KAUFMAN. Absolutely.

2595 Mr. MURPHY. But part of this, too, I mean, I am not
2596 clear on what you are saying, Mr. Kaufman. I want to be
2597 clear on that that in some cases, I mean, are you making
2598 excuses for the persons and saying that there was not enough
2599 protocol? I am not sure what you are saying.

2600 Mr. KAUFMAN. No. No, sir. I am not making excuses.

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2601 What I am saying is that there is a healthy respect for what
2602 truly is going on here, and I think we have to look at the
2603 spectrum. We cannot be arrogant and say this is just what
2604 happens in science, but we also cannot be living in an
2605 illusion where this is the end of the earth. We have got to
2606 stop all research. We have got to minimize and cut things
2607 down to a certain number of laboratories as a result of
2608 happens here.

2609 I think we have to take a balanced approach and take a
2610 look at really what happened, and in the culture in which it
2611 happened. That is what I am saying.

2612 Mr. MURPHY. Dr. Ebright, do you concur?

2613 Mr. EBRIGHT. I disagree.

2614 Mr. MURPHY. Can you please explain?

2615 Mr. EBRIGHT. So these are problems of individuals, but
2616 they are problems of individuals acting in a context. That
2617 context has two components. The one is the laboratory
2618 culture, and we have talked several times or heard several
2619 times today about a culture of lax attitude towards safety.
2620 That is part of the problem. We have also heard several
2621 times today about researchers become inured to working with

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2622 | dangerous or hazardous materials. That is part of the
2623 | problem.

2624 | What has not been mentioned before with respect to
2625 | culture is hubris, and hubris is fundamentally part of the
2626 | problem here, a sense of the scientist that he or she should
2627 | be able to proceed without restriction and without
2628 | management. So these are all issues with the culture.

2629 | But in addition to that culture, you have an
2630 | institutional structure. You have institutional management,
2631 | and then you have the oversight of that institution. I think
2632 | these are even bigger problems that are even more
2633 | significantly responsible for the issues that I described.

2634 | I mentioned the fact that CDC and USDA regulate their
2635 | own biosafety and biosecurity. They perform the work. They
2636 | fund the work. That is an inherent conflict of interest.
2637 | Until that regulatory responsibility is moved out of those
2638 | two agencies and out of any agency that performs select agent
2639 | research and funds select research, I believe you can predict
2640 | with high confidence the same types of problems, the same
2641 | patterns, and the same cultures will remain in place in CDC
2642 | labs, in USDA labs, and in the approximately 1,000 other labs

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2643 they regulate.

2644 Mr. MURPHY. Thank you. My time is way over. I am
2645 going to now to recognize Ms. DeGette for 5 minutes.

2646 Ms. DeGETTE. Thank you, Mr. Chairman. I will follow up
2647 on your questions. Mr. Kaufman, I have no doubt that these
2648 individuals have no ill motives. They are well motivated.
2649 They are trying to do their research. And, Dr. Ebright, I
2650 think you would agree with that as well.

2651 Mr. EBRIGHT. I would.

2652 Ms. DeGETTE. But let me just put this in context. I do
2653 not know if you were here when we gave our opening
2654 statements. I have been on this subcommittee since 1997, and
2655 I have got to tell you that the reason why we are so
2656 concerned here is because this kind of practice keeps
2657 happening over and over again. It is not just one isolated
2658 incident.

2659 As our memo that I put into the record said, there were
2660 six inspections. APHIS identified 29 observations of
2661 concerns of facilities and equipment, 27 related to safety
2662 and security, and 39 on documentation and record keeping.
2663 And a lot of times what we are dealing with in this situation

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2664 | is very, very extreme bioagents that could kill a number of
2665 | people. And you are nodding your head, so I am assuming you
2666 | understand this, yes or no?

2667 | Mr. KAUFMAN. Yes, I do.

2668 | Ms. DeGETTE. Okay. So what we are trying to figure
2669 | out, and like I say, I think the people are trying to do
2670 | their job. I think they are well motivated. But with all
2671 | due respect, we are not overreacting here. This has got to
2672 | be solved.

2673 | So what I want to ask you since you were here is, did
2674 | you hear Ms. Kingsbury's testimony where she said that we
2675 | need to have one agency at least in charge of developing
2676 | national standards?

2677 | Mr. KAUFMAN. Yes, I did.

2678 | Ms. DeGETTE. And what do you think of that? And she
2679 | admitted that it is going to be difficult to do that because
2680 | of overlapping jurisdictions. But would you agree that it is
2681 | worth an effort to try to do that?

2682 | Mr. KAUFMAN. I know you like yes and no answers, and I
2683 | am trying to think. I agree that we should explore what we
2684 | are doing today and where we could go in the future, yes.

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2685 Ms. DeGETTE. Okay. Dr. Ebright, what do you think
2686 about that suggestion?

2687 Mr. EBRIGHT. There definitely should be a single
2688 national agency that sets policy recommendations, policy
2689 standards, and advises on needs and how those needs should be
2690 met. There also should be a national entity that regulates
2691 and oversees the select agent. They need not be the same,
2692 but they both need to be there.

2693 Ms. DeGETTE. And, you know, let me just say that we
2694 have seen this in this subcommittee, not just at CDC. We
2695 have also seen it in the labs. And we saw it at Los Alamos
2696 some years ago where some very highly confidential nuclear
2697 data disappeared because a researcher took it home to his
2698 house. It is the same kind of, you call it hubris or
2699 whatever. It is an assumption that there is important
2700 research going on, and that nothing bad is going to happen.

2701 Mr. EBRIGHT. Correct.

2702 Ms. DeGETTE. And so, what I think is that, and in
2703 fairness I think what Dr. Frieden thinks, too, is you need to
2704 put systems in place so that it is not relying on somebody to
2705 have that kind of judgment where really you should have a

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2706 system. Would you agree with that?

2707 Mr. EBRIGHT. Absolutely.

2708 Ms. DeGETTE. And, Mr. Kaufman, would you also agree
2709 with that?

2710 Mr. KAUFMAN. Absolutely.

2711 Ms. DeGETTE. Okay, great. Thanks, Madam Chairman. I
2712 do not have anything further. Thank you for clarifying, and
2713 I will yield back.

2714 Mr. MURPHY. Thank you. The gentlelady yields back. I
2715 will now recognize Ms. Blackburn of Tennessee for 5 minutes.

2716 Ms. BLACKBURN. Thank you, Madam Chairman. I think we
2717 are all kind on the same path here with our questions.

2718 Dr. Ebright, I want to come to you. Let us go back to
2719 the CDC report from the 2004 anthrax incident, and you
2720 mentioned that. And that incident stated "inactivated
2721 anthrax should be cultured both at the preparing lab before
2722 shipment and at the research lab several days before use to
2723 ensure sterility." So did CDC follow their own advice in
2724 this? Okay, go ahead.

2725 Mr. EBRIGHT. No, they did not. Apparently not in 2006.
2726 Definitely not in 2014.

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2727 Ms. BLACKBURN. Okay. So what we have is a continued
2728 pattern of refusing to learn from their past mistakes.

2729 Mr. EBRIGHT. Indeed refusing to read their own reports
2730 and follow their own recommendations.

2731 Ms. BLACKBURN. Okay. You are the director of a
2732 biomedical research lab.

2733 Mr. EBRIGHT. Yes.

2734 Ms. BLACKBURN. And you do some of this same work with
2735 dangerous pathogens. And how important is it to you that all
2736 personnel in your lab strictly follow your biosafety
2737 protocols, and that in order to follow those biosafety
2738 protocols, they have an understanding that they have culture
2739 of safety that is lacking at CDC?

2740 Mr. EBRIGHT. I think it is critically important. And
2741 for biosafety working with biohazardous organisms at any
2742 level -- one, two, three, or four -- that message of safety
2743 has to come first. That safety training has to come first.
2744 And before any experiment is even begun, there has to be a
2745 process of risk benefit assessment in which the investigator
2746 enumerates the risks, enumerates the benefits, weights the
2747 risks against the benefits, assesses that the risks are

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2748 outweighed by the benefits. And that process needs to be
2749 reviewed by another set of eyes.

2750 Ms. BLACKBURN. Do you follow this as standard operating
2751 procedures?

2752 Mr. EBRIGHT. Yes, we do for our biological, biohazard
2753 research.

2754 Ms. BLACKBURN. Yes. Is it clearly understood from all
2755 of your personnel, do they see this as written best
2756 practices, and do they understand that they are expected and
2757 required to follow?

2758 Mr. EBRIGHT. They understand that they are expected and
2759 required to follow these practices. They are monitored in
2760 these practices, and the message consistently is that these
2761 agents require respect, and they be handled with respect.
2762 And before any experiment, that risk benefit assessment must
2763 occur.

2764 Ms. BLACKBURN. And if one of your personnel failed to
2765 follow those protocols, what would do to them?

2766 Mr. EBRIGHT. Depending on the nature of the failure,
2767 they would face consequences up to and including termination.

2768 Ms. BLACKBURN. Okay. And we do not see that pattern

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2769 taking place at CDC.

2770 Mr. EBRIGHT. We have not seen evidence for it.

2771 Ms. BLACKBURN. Okay. Do you think that CDC is in need
2772 of a major correction, and do you have advice for CDC on what
2773 that correction would be?

2774 Mr. EBRIGHT. Many of the things that we heard Dr.
2775 Frieden suggest will be undertaken at the CDC are precisely
2776 the steps that are required at the CDC. The question is
2777 whether this time will be different from the previous time,
2778 and the time before, and the time before that.

2779 Ms. BLACKBURN. And if they did not do that, I think
2780 probably according to what you have said, you would terminate
2781 the whole bunch.

2782 Mr. EBRIGHT. Again, in this particular case, personnel
2783 action will not be sufficient to resolve the issue. This
2784 issue is institutional and organizational.

2785 Ms. BLACKBURN. Correct.

2786 Mr. EBRIGHT. They cannot have the regulatory authority
2787 to regulate themselves. It simply does not work. It does
2788 not work in many areas of human endeavor, and it definitely
2789 does not work in this area.

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2790 Ms. BLACKBURN. Mr. Kaufman, anything to add to that?

2791 Mr. KAUFMAN. I continue to stand by my belief and my
2792 conviction, because over the last 10 years I have traveled
2793 the world, including several Federal labs in the United
2794 States, and I have asked scientists to please report
2795 laboratory accidents and incidents so we have a chance to
2796 learn from them. And if we take this chance now and turn it
2797 into a punitive aspect against scientists that make
2798 unintentional injuries, it is well-known that punishment does
2799 three things. It builds resentment, it teaches no new
2800 behavior, and it hides true behavior.

2801 And so, if we are going to make decisions that are going
2802 to decrease risk in science, we had better consider how we
2803 address incidents and accidents before doing so. Punitive
2804 actions, in my opinion, are not a way to go, certainly not
2805 against the scientists that unintentionally makes a mistake.

2806 If a scientist willingly, and there are scientists that
2807 do that, go against SOPs, that is a completely different job
2808 issue than a scientist that is doing their job within a
2809 culture and does not go outside of the SOP that is provided
2810 to them.

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2811 Ms. BLACKBURN. Thank you. Mr. Chairman, I yield back.

2812 Mr. MURPHY. I got a comment to that, Mr. Kaufman. It
2813 builds resentment. You got to be kidding me. You are
2814 telling me these people with Ph.D.s do not understand that
2815 anthrax is dangerous? Are you kidding me? They need more
2816 training? You are making your statement that CDC anthrax lab
2817 incident was all a result of training failure, safety
2818 training for scientists working at high containment
2819 facilities consistent multiple basis, blah, blah, blah. Are
2820 you kidding me? Are you making excuses for these scientists?

2821 If they do not understand that anthrax is used for a
2822 weapon, its spores can kill people, it killed people and
2823 harmed people at the U.S. Capitol, then they should not be
2824 working there. And it sounds like you are saying they need
2825 more training. Boo hoo.

2826 This is a bad situation. And I do not think you
2827 understand the seriousness of this, and it sounds like you
2828 are making excuses. Look at this. The *Washington Post*.
2829 Today's cartoon. Do you think the employees at CDC are proud
2830 of this? Ha ha ha. It is funny. No, it is not. This is
2831 tragic. It could have been lethal for people.

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2832 And I hear you telling Ms. Blackburn that we are going
2833 to build resentment. I am sorry, I do not buy that at all.

2834 Mr. KAUFMAN. May I comment? Thank you. Thank you,
2835 Chairman Murphy. I again am not defending what is going with
2836 CDC. In fact, I have said that I am disappointed even as a
2837 former CDC --

2838 Mr. MURPHY. Disappointed is not the right word. You
2839 should find this to be abhorrent. Any words other than yes
2840 or no, was it wrong or not wrong. We can make excuses for --
2841 Mary Barra sat here from GM, and she said this was wrong.
2842 There is no question about it. Dr. Frieden said this was
2843 wrong. There is no gray zone in this. I do not get it. I
2844 will let you respond to that.

2845 Mr. KAUFMAN. I appreciate that. I know the individuals
2846 involved, and when I say training is needed and training is a
2847 solution, there are several phases of training, and on-the-
2848 job specific training, which includes SDOP verification, is
2849 needed for scientists, which has been mentioned in previous
2850 panel aspects as well.

2851 I am not making light of this situation. I am not
2852 making light of this situation at all. I am simply saying

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2853 | that if we choose people who come forward when they make a
2854 | mistake --

2855 | Mr. MURPHY. That is different. I am not talking.

2856 | Mr. KAUFMAN. That is what I am saying.

2857 | Mr. MURPHY. That is different. We want people to be
2858 | willing to do that.

2859 | Mr. KAUFMAN. Thank you. That is what --

2860 | Mr. MURPHY. But I thought that you were saying here,
2861 | and I think it is in your statement here, too, they need more
2862 | training.

2863 | Mr. KAUFMAN. They need on-the-job --

2864 | Mr. MURPHY. They do not training to know that this is
2865 | bad. When you put anthrax in a Ziploc bag or any pathogen,
2866 | you do not training to know that. So I have gone over. Mr.
2867 | Griffith, you are recognized.

2868 | Mr. KAUFMAN. That is subjective.

2869 | Mr. GRIFFITH. Well, and I guess my concern is that what
2870 | we have here is a series of reports that Dr. Ebright has
2871 | brought out some of the questioning that I did and others did
2872 | earlier. We have had a series of reports that date back a
2873 | good period of time, and yet the changes have not been made.

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2874 And so, it is a concern.

2875 A mistake is one thing. Having a standard operating
2876 procedure which is so flawed that you have repeated mistakes
2877 is something that I have to agree with the chairman on. That
2878 is our problem. And I agree with you, Mr. Kaufman, you do
2879 not want to punish somebody who merely makes a mistake. You
2880 want him to come forward as quickly as possible and let us
2881 fix it. But you got to stop the same mistake happening over
2882 and over again.

2883 Dr. Ebright, how do we make these reforms happen?

2884 How do we do that because while CDC has to protect the
2885 American public from anthrax and other things, our job is to
2886 do oversight and make sure that they are doing their jobs.
2887 So how do we make it happen?

2888 Mr. EBRIGHT. I think the two steps that Congress and
2889 the Administration could follow to reduce the probability
2890 that this happens again in CDC's own labs and in the labs
2891 that CDC and USDA regulate outside those facilities, the two
2892 most important steps are, first, to reduce the number of
2893 select agent laboratories. The number of select agent
2894 personnel, the volume of select agent research, increased by

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2895 | a factor of 20 to 40 over the last decade.

2896 | That volume of registered individuals, that volume of
2897 | activity needs to be rolled back to close to the level of
2898 | where it was at the beginning of that increase. That would
2899 | represent taking the current 1,000 or more than 1,000 select
2900 | agent labs in the U.S. and reducing it to 50.

2901 | Mr. GRIFFITH. All right. Let me ask you a question
2902 | real quick. High containment select agent, are those
2903 | interchangeable terms or they different?

2904 | Mr. EBRIGHT. They are very close to interchangeable.

2905 | Mr. GRIFFITH. Okay.

2906 | Mr. EBRIGHT. Most select agent research, particularly
2907 | most research, are consequences done at Biosafety Level 3.
2908 | Biosafety Levels 3 and 4 are considered high level
2909 | containment.

2910 | Mr. GRIFFITH. So your first recommendation is let us
2911 | squeeze it back down to 50 instead of a thousand of these
2912 | select agent --

2913 | Mr. EBRIGHT. Roughly. The increase was a factor of 20
2914 | to 40. I would recommend we roll back a factor of 20 to a
2915 | factor of 40. A thousand divided by 20 is 50. A thousand

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2916 divided by 40 is 25.

2917 Mr. GRIFFITH. All right.

2918 Mr. EBRIGHT. So that, I believe, is the single easiest,
2919 single fastest, and certainly most economical approach

2920 Mr. GRIFFITH. All right. And you had a second because
2921 obviously my time is limited.

2922 Mr. EBRIGHT. Okay. Last one is independent entity that
2923 carries out the regulation and oversight of biosafety and
2924 biosecurity in those labs, not an agency that performs the
2925 work, not an agency that funds the work.

2926 Mr. GRIFFITH. Okay. Now, you said we need to scale
2927 back, but let me ask you. Why has there been an expansion?
2928 And the phrasing I have is the high containment laboratories,
2929 you said they are closed. Why has there been such a great
2930 expansion?

2931 Mr. EBRIGHT. So it was in large measure, essentially in
2932 whole, a response to the 2001 anthrax mailings. At the time
2933 of 2001 anthrax mailings, it was understandable because it
2934 was expected here and elsewhere that the U.S. was under
2935 attack with a biological weapon from a foreign source. It
2936 was expected that biology would be put on a mobilization

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2937 footing to address this threat. We expanded by a factor of
2938 20 to 40.

2939 Now, more than a decade later, more than a decade after
2940 it has become absolutely clear that the 2001 anthrax mailings
2941 did not come from a foreign source, and after it has become
2942 clear that the investigation believes it came from within the
2943 U.S. biodefense establishment, we have the strange situation
2944 that we have expanded that establishment by a factor of 20 to
2945 40 without reason and without reassessment.

2946 Mr. GRIFFITH. And the risks are self-evident?

2947 Mr. EBRIGHT. The risks follow mathematically. When you
2948 increase the number of personnel by a factor of 20 to 40,
2949 particularly when your recruit people without prior
2950 experience, new to the field, you increase risks, and you
2951 increase those risks by a factor of 20 to 40 or more.

2952 Mr. GRIFFITH. On those points, Mr. Kaufman, are you in
2953 agreement that we need to scale it back some?

2954 Mr. KAUFMAN. I am not. I agree with GAO. I think that
2955 there is not enough information to make the decision to
2956 either back off or go up. We do not have a baseline. And I
2957 also would like to say that the capacity of high containment

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2958 laboratories are not built for the threats we just see today.
2959 They are built for the threats that we do not see coming
2960 around the corner tomorrow.

2961 Mr. GRIFFITH. Let me switch gears and ask about the
2962 research implications or the implications from research of
2963 re-engineering pathogens such as the experiments by the
2964 University of Wisconsin scientists that generated a virus
2965 similar to the 1918 influenza outbreak that killed tens of
2966 thousands, maybe hundreds of thousands worldwide, and other
2967 ways to make H5N1 Avian flu virus more contagious in ferrets.
2968 I mean, is this part of the expansion or is this --

2969 Mr. EBRIGHT. This is part of the expansion. This is
2970 work that is funded as biodefense research. And this is a
2971 prime example of the culture of hubris. This is work that
2972 should not be performed. Flat and blank, should not be
2973 performed.

2974 In those cases where elements of this work are deemed
2975 essential, when the research information could be obtained in
2976 no other way, then this work should only be performed in a
2977 very limited number of institutions, perhaps one or two
2978 nationally, and only after extensive review of risk benefit

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2979 weighing at the national level, and only under the most
2980 stringent safety and security standards.

2981 Mr. GRIFFITH. I appreciate that very much. I
2982 appreciate both witnesses being here. Mr. Chairman, I
2983 appreciate having the hearing. I like the opportunities to
2984 learn, and I have learned a great deal from this hearing.
2985 Thank you so much.

2986 Mr. MURPHY. I thank the gentleman for yielding back,
2987 and I certainly would encourage all members of this committee
2988 to go visit some of the labs around the country.
2989 Particularly go to CDC headquarters and see for their own
2990 eyes how this works. And certainly for members of the CDC
2991 who may be listening, I hope they understand the seriousness
2992 of what Congress views today on this.

2993 I ask unanimous consent that the members' written
2994 opening statements be introduced in the record, and without
2995 objection, the documents will be entered in the record.

2996 I also ask unanimous consent to put the document binder
2997 in the record subject to redactions by staff.

2998 In conclusion, I want to thank all the witnesses and
2999 members who have participated in today's hearing, and remind

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3000 | members they have 10 business days to submit questions for
3001 | the record. I would ask that all the witnesses agree to
3002 | respond promptly to the questions.

3003 | Thank you very much. And with that, this hearing is
3004 | adjourned.

3005 | [Whereupon, at 12:45 p.m., the Subcommittee was
3006 | adjourned.]